

Welcome to Front Range Community College



Our No. 1 priority is student success. We believe that learning is a partnership among students, faculty, and staff, and we are dedicated to providing opportunities for diverse learners and communities. Here are a few of the ways we focus on your success:

We prepare you for the "real world."

Our associate degrees and certificate programs train students for careers in well-established and emerging industries. Clean Energy Technology, for example, is the result of collaboration with more than two dozen Colorado businesses and organizations. Health Information Technology is preparing students as the health-care industry moves toward electronic records in 2014.

For employers, FRCC's Corporate Solutions team customizes training to meet the needs of businesses, whether they want to have industry-specific training on-site, provide businesses education for executives (such as project management or Six Sigma certification training), or establish programs to develop employee's management and leadership skills. Recent examples include training programs for machining, manufacturing technology and smart-grid technology.

Your credits are guaranteed to transfer.

Our gtPATHWAYS curriculum of general education courses and our Associate of Arts (A.A.) and Associate of Science (A.S.) degrees are guaranteed to transfer to the colleges of arts and sciences at all public four-year colleges and universities in Colorado. You can also graduate from FRCC with a degree designation in Anthropology, Business, Criminal Justice, Economics, French, History, Mathematics, Political Science, Psychology (A.A.), Psychology (A.S.), Sociology, or Spanish, also guaranteed to give you junior standing at many public colleges and universities in Colorado. In addition, special statewide transfer agreements cover fields of study such as early childhood education, elementary education, and nursing. With all these transfer opportunities and FRCC's reputation for academic rigor and excellence, it's no wonder FRCC is the number one transfer institution for Colorado State University, Metropolitan State University of Denver, and the University of Colorado at

Boulder. We also have transfer agreements with Colorado School of Mines, Regis University, and the University of Denver. If you do transfer, our studies show that you will be very well prepared – FRCC students do as well at four-year schools as the students who start there.

Our faculty are dedicated to teaching and learning.

Our devoted, highly educated faculty are passionate about teaching and student success. At FRCC, classes are small enough that instructors know your name—and can help you get to where you want to go.

We're cutting-edge.

FRCC's classrooms and labs employ some of the best technology in the state. Students work with the latest software and computer equipment, and our state-of-the-art facilities ensure teaching is always at the leading edge.

We partner with high schools.

Our Gateway to College, College Now, and FRCC Early College programs, which allow students to earn high school and college credit simultaneously, are just a few examples of FRCC's commitment to helping young students better their lives through education.

Our students come from all walks of life.

FRCC students come from a wide range of ethnic, socioeconomic, and educational backgrounds. From freshmen coming straight from high school to adult students seeking to further their careers, we embrace diversity.

We'll help you figure it all out.

If you're unsure of what you want to do, our academic advisors will help you determine your goals, choose classes, and plan your career. If you're concerned that you're not ready for college-level class work, we offer mathematics and English preparatory courses that will set you up to succeed. A number of those classes are set up as "learning communities" where your teachers and fellow students support you toward success. We also provide tutoring, math, and science drop-in help centers, and a number of other academic support services.

At FRCC, you'll save a bundle.

Starting your education at FRCC will save you thousands of dollars in tuition, helping you reach your career and life goals affordably. If you are a Colorado resident, apply for the College Opportunity Fund to cover part of your tuition.

We help you succeed.

No matter who you are, FRCC has programs and resources that will help you thrive—and have fun while you're at it. Our mentorship programs, tutoring support, study skills seminars, and math, science and English labs enhance your learning. We also believe that not all learning takes place in the classroom. Check out all the organizations and activities our campuses have to offer—visit with a Student Life professional to see how you can get involved.

On behalf of all of our staff and faculty, I welcome you to Front Range Community College. When it comes to focusing on your success, FRCC is unmatched. I am excited that you have chosen to partner with us as you begin or continue your educational journey.

Andy Dorsey, President

Important Dates to Remember

Calendar dates are subject to change without notice. To access drop and withdrawal dates, go to eWOLF, the Student Tab, Registration Tools Channel and click on the link "Detailed Student Schedule (with drop & withdrawal dates)."

Summer Semester 2013

CLASS SESSIONS

10-Week Classes	May 28 - August 5
1st 5-Week Classes	May 28 - July 1
2nd 5-Week Classes	July 2 - August 5
Weekend Classes	June 1 - August 4
INDEPENDENCE DAY HOLIDAY	NO CLASSES July 4 College Closed July 4

Fall Semester 2013

15-Week Classes	August 19 - December 9
1st 10-Week Classes	August 19 - October 28
2nd 10-Week Classes	September 24 - December 9
1st 5-Week Classes	August 19 - September 23
2nd 5-Week Classes	September 24 - October 28
3rd 5-Week Classes	October 29 - December 9
1st 7-1/2-Week Classes	August 19 - October 9
2nd 7-1/2-Week Classes	October 10 - December 9
1st 12-Week Classes	August 19 - November 11
2nd 12-Week Classes	September 10 - December 9
Weekend Classes	August 17 - December 8
LABOR DAY HOLIDAY	NO CLASSES Friday Evening Aug. 30 - Monday, September 2 College Closed September 2
THANKSGIVING HOLIDAY	NO CLASSES November 25 - December 1 College Closed November 28

Spring Semester 2014

15-Week Classes	January 21 - May 12
1st 10-Week Classes	January 21 - April 7
2nd 10-Week Classes	February 25 - May 12
1st 5-Week Classes	January 21 - February 24
2nd 5-Week Classes	February 25 - April 7
3rd 5-Week Classes	April 8 - May 12
1st 7-1/2-Week Classes	January 21 - March 12
2nd 7-1/2-Week Classes	March 13 - May 12
1st 12-Week Classes	January 21 - April 21
2nd 12-Week Classes	February 11 - May 12
Weekend Classes	January 24 - May 11
MARTIN LUTHER KING, JR. HOLIDAY	January 20 NO CLASSES College Open

SPRING BREAK 2014

Larimer Campus	March 17 - 23 NO CLASSES College Open
----------------	--

Boulder County Campus Westminster Campus/ Brighton Center	March 24 - 30 NO CLASSES College Open
---	--

COMMENCEMENT 2014

Boulder County Campus	(tentative) May 15
Larimer Campus	(tentative) May 14
Westminster Campus/ Brighton Center	(tentative) May 16

Contents

Welcome to Front Range Community College.....	1	Honors Program at Larimer Campus.....	25
Important Dates to Remember.....	2	Supplemental Instruction.....	26
Summer Semester 2013	2	Continuing Education.....	26
Fall Semester 2013	2	ROTC Air Force.....	26
Spring Semester 2014.....	2	ROTC Army.....	26
Contents.....	3	Partnerships with K-12 Schools	26
About FRCC.....	7	Small Business Development Center.....	27
Campuses.....	7	International Travel-Study Abroad Program.....	27
FRCC Online Learning	7	Academic Matters.....	28
Gainful Employment Disclosure Information.....	7	Academic Appeals Procedures.....	28
Credits.....	7	Academic Renewal Policy.....	28
Accreditation.....	7	Attendance.....	28
Please Recycle.....	7	Credit Hours	28
Programs Accredited by Special Agencies.....	7	Academic Progress Policy.....	28
Mission and Strategic Plan.....	8	Course Load.....	29
Our Core Values.....	8	Grades	29
Purpose	8	FRCC and the Student Appeals Process.....	33
Chronology: FRCC's Campuses.....	9	Associate Degrees	37
College of Communities.....	9	General Requirements for Degrees and Certificates.....	37
Commitment to Diversity	10	Transferring Credit to Four-Year Schools	37
Advisory Councils	10	Guaranteed Transferability.....	38
Enrollment Processes	11	FRCC Guaranteed Completion of A.A. / A.S. in Two Years.....	39
Which Catalog to Use.....	11	Statewide Transfer Policy and Student Bill of Rights.....	39
Other Formats Available.....	11	Colorado Guaranteed Transfer Program for General	
Application and Enrollment Procedures for New Students.....	11	Education	39
Financial Matters.....	15	Associate of Arts Degree.....	41
Explanation of Fees.....	15	Advising Sheet: Associate of Arts Degree Worksheet.....	42
Registration Fee***	15	Associate of Science Degree.....	45
Course Fees**.....	15	Advising Sheet: Associate of Science Degree Worksheet.....	45
Pass Through Fees**	15	Associate Degrees with Designations	48
Student Center / Campus Center Bond Fee**.....	15	Advising Sheet: Associate of Arts Degree, Designation in	
Student, Parking and Facility Fees**	15	Anthropology for Transfer.....	48
Fee Disputes.....	15	Advising Sheet: Associate of Arts Degree, Designation in	
Tuition and Fee Payment.....	15	Business for Transfer.....	51
Deferred Payment	16	Advising Sheet: Associate of Arts Degree, Designation in	
Financial Obligations of Students.....	16	Criminal Justice for Transfer.....	53
Bad Checks.....	16	Advising Sheet: Associate of Arts Degree, Agreement in	
Credit Card Charge Backs.....	16	Early Childhood Education for Transfer.....	56
Delinquent Accounts.....	16	Advising Sheet: Associate of Arts Degree, Designation in	
Nonattendance.....	16	Economics for Transfer.....	57
Tuition and Fee Refunds.....	16	Advising Sheet: Associate of Arts Degree, Agreement in	
Financial Aid.....	16	Elementary Education for Transfer.....	60
Services for Students.....	19	Advising Sheet: Associate of Arts Degree, Designation in	
Student Services.....	19	French for Transfer.....	61
Instructional Information.....	23	Advising Sheet: Associate of Arts Degree, Designation in	
Instructional Philosophy Statement.....	23	History for Transfer.....	64
Student Learning, Assessment, and Accountability	23	Advising Sheet: Associate of Arts Degree, Designation in	
Instructional Delivery	23	Political Science for Transfer.....	67
Online Learning.....	23	Advising Sheet: Associate of Arts Degree, Designation in	
Articulation Agreements.....	24	Psychology for Transfer.....	70
Credit for Prior Learning	24	Advising Sheet: Associate of Arts Degree, Designation in	
		Sociology for Transfer	73
		Advising Sheet: Associate of Arts Degree, Designation in	
		Spanish for Transfer.....	76
		Advising Sheet: Associate of Science Degree, Designation in	
		Mathematics for Transfer.....	79
		Advising Sheet: Associate of Science Degree, Designation in	
		Psychology for Transfer.....	82
		Associate of General Studies Degree.....	84
		Advising Sheet: Associate of General Studies Degree	
		Worksheet.....	84

FRONT RANGE COMMUNITY COLLEGE

Associate of Applied Science Degree.....86
 Approved General Education Electives List for Associate of Applied Science Degree.....87
 Specific Certificate Requirements.....87
 Courses Not Applicable to Any Degree or Certificate.....87

Instructional Programs.....89

Programs Available by Campus.....89
 Associate Degrees89
 Certificates Available by Campus.....90
 Certificates90

Degrees and Certificates92

Accounting - Associate of Applied Science Degree..... 92
 Accounting - Certificate.....92
 Accounting - Enrolled Agent Certificate.....93
 Accounting Transfer93
 Animal Laboratory Technology - Associate of Applied Science93
 Basic Laboratory Animal Care - Certificate.....94
 Laboratory Animal Care and Management - Certificate.94
 Applied Technology - Associate of Applied Science Degree94
 Architectural Engineering and Construction Technology95
 Architectural Engineering and Construction Technology - Certificates96
 Automotive Technology - Associate of Applied Science Degree.....96
 Automotive Technology - Certificates.....97
 Business - Associate of Applied Science Degree.....98
 Associate of Arts Degree with Business Designation.....99
 Business - Certificates.....99
 Clean Energy Technology - Associate of Applied Science Degree.....100
 Clean Energy Technology Certificate.....101
 Computer-Aided Drafting and Design - Associate of Applied Science Degree.....101
 Computer-Aided Drafting and Design - Certificates.....102
 Computer Information Systems - Associate of Applied Science Degree.....103
 Computer Information Systems - Certificates.....104
 Dental Assisting - Certificate.....106
 Early Childhood Education - Associate of Applied Science Degree.....106
 Early Childhood Education - Certificates107
 Early Childhood Education for Transfer - Associate of Arts Degree.....108
 Elementary Education for Transfer - Associate of Arts Degree109
 Emergency Medical Services - Certificates.....109
 Engineering for Transfer - Associate of Science Degree110
 Associate of Science for Transfer in Engineering.....110
 Forestry, Wildlife and Natural Resources - Associate of Applied Science Degree.....110
 Natural Resources For Transfer.....110
 Forestry, Wildlife and Natural Resources - Certificates .111
 Geographic Information Systems - Certificates.....111
 Health Information Technology - Associate of Applied Science Degree.....112
 Heating, Ventilation, and Air Conditioning - Associate of Applied Science Degree.....112
 Heating, Ventilation, and Air Conditioning - Certificates113
 Holistic Health - Associate of Applied Science Degree.114
 Holistic Health - Certificates.....114

Horticulture and Landscape Technologies - Associate of Applied Science Degree.....115
 Horticulture and Landscape Technologies - Certificates116
 Hospitality and Culinary Arts Management - Associate of Applied Science Degree.....118
 Hospitality and Culinary Arts Management - Certificates119
 Interior Design - Associate of Applied Science in Interior Design120
 Interior Design - Certificates.....121
 Interpreter Preparation - Associate of Applied Science Degree.....121
 Management121
 Marketing.....121
 Medical Office Technology - Associate of Applied Science Degree.....122
 Medical Office Technology - Certificates.....123
 Multimedia Technology - Associate of Applied Science Degree.....125
 Multimedia Technology - Certificates128
 Nursing.....129
 Nursing - Associate of Applied Science Degree.....130
 Nursing Advanced Placement-Bridge Program (LPN to ADN)131
 Nursing - Certificate.....132
 Paralegal Studies - Associate of Applied Science Degree134
 Paralegal Studies - Certificate.....134
 Pharmacy Technician - Certificate.....135
 Phlebotomy - Certificate.....135
 Teacher Education136
 Teaching English as a Second Language (TESL) - Certificates136
 Veterinary Technology - Associate of Applied Science Degree.....136
 Admission Requirements:.....136
 Veterinary Technology - Veterinary Technician Assistant Certificate.....137
 Welding Technology - Associate of Applied Science Degree138
 Welding Technology - Certificates138

Course Descriptions.....140

State Guaranteed General Education Transfer Courses140
 Additional Specialized Courses140
 AAA - Advancement of Academic Achievement.....141
 ACC - Accounting141
 AEC - Architectural Engineering and Construction Technology.....142
 AIR - Air Force ROTC143
 ALT - Animal Lab Technology143
 ANT - Anthropology144
 AQT - Aquaculture.....145
 ARA - Arabic.....145
 ARM - Army ROTC.....145
 ART - Art.....146
 ASC - Animal Sciences.....149
 ASE - Auto Service Technology.....149
 ASL - American Sign Language.....151
 AST - Astronomy.....152
 AUT - Auto Motorsports Technology.....152
 BIO - Biology.....152
 BUS - Business.....153
 CAD - Computer-Aided Drafting.....154
 CAR - Carpentry.....156
 CHE - Chemistry.....156
 CHI - Chinese.....157

2013-2014 CATALOG

CIS - Computer Information Systems.....	157
CNG - Computer Networking.....	158
COM - Communication.....	159
CON - Construction Technology.....	160
CRJ - Criminal Justice.....	160
CSC - Computer Science.....	161
CUA - Culinary Arts.....	162
CWB - Computer Web-Based.....	162
DAN - Dance.....	162
DEA - Dental Assisting.....	163
DPM - Diesel Power Mechanics.....	165
ECE - Early Childhood Education.....	165
ECO - Economics.....	167
EDU - Education.....	167
EGG - Engineering.....	169
EGT - Engineering Graphics Technology.....	169
ELT - Electronics.....	170
EMS - Emergency Medical Services.....	170
ENG - English.....	171
ENP - Entrepreneurship.....	173
ENV - Environmental Sciences.....	173
ENY - Energy.....	173
ESL - English as a Second Language.....	174
ETH - Ethnic Studies.....	175
FIN - Finance.....	175
FLD - Floral Design.....	175
FRE - French.....	175
FSW - Fire Science Wildland.....	176
GEO - Geography.....	176
GER - German.....	177
GEY - Geology.....	177
GIS - Geographic Information Systems.....	178
HHP - Holistic Health Professional.....	178
HIS - History.....	181
HIT - Health Information Technology.....	183
HLT - Horticulture and Landscape Technologies.....	184
HOS - Hospitality/Culinary Arts Management.....	186
HPE - Human Performance & Exercise.....	188
HPR - Health Professional.....	188
HUM - Humanities.....	189
HVA - Heating, Ventilation and Air Conditioning.....	190
HWE - Health Wellness Education.....	190
IND - Interior Design.....	191
IPP - Interpreter Preparation.....	192
ITA - Italian.....	193
JOU - Journalism.....	194
JPN - Japanese.....	194
Legal Assistant.....	195
LIT - Literature.....	195
MAC - Machining Technology.....	196
MAN - Management.....	196
MAR - Marketing.....	197
MAT - Mathematics.....	198
MET - Meteorology.....	200
MGD - Multimedia Graphic Design.....	200
MOT - Medical Office Technology.....	203
MST - Massage Therapy.....	205
MTE - Manufacturing Technology.....	205
MUS - Music.....	206
NRE - Natural Resources.....	207
NUA - Nurse Aide.....	208
NUR - Nursing.....	208
OSH - Occupational Safety Technician.....	211
OUT - Outdoor Studies.....	211

PAR - Paralegal.....	212
PED - Physical Education.....	213
PHI - Philosophy.....	213
PHO - Photography.....	215
PHT - Pharmacy Technician.....	215
PHY - Physics.....	216
POS - Political Science.....	217
PPT - Powerplant Technology.....	217
PSY - Psychology.....	218
REA - Reading.....	219
REC - Recreation.....	219
RUS - Russian.....	219
SCI - Science.....	220
SOC - Sociology.....	220
SPA - Spanish.....	221
SPE - Speech.....	222
SVT - Sport Vehicle Technology.....	222
TEL - Teaching English as a Second Language (TESL).....	222
THE - Theatre Arts.....	223
VET - Veterinary Technology.....	224
WEL - Welding Technology.....	226
WST - Women's Studies.....	227

Course Changes..... 228

Courses Added.....	228
Courses Deleted.....	228
Course Number, Course Name, & Credit Changes Since Our Last Catalog.....	228

Faculty and Staff..... 230

State Board for Colorado Community Colleges & Occupational Education.....	230
Administration.....	230
Instruction and Student Services.....	230
Faculty.....	231

Legal Notices..... 236

Rights Reserved.....	236
Student Rights and Responsibilities.....	236
Student Code of Conduct.....	238
Voter Registration Information.....	242

INDEX..... 243

About FRCC

Campuses

www.frontrange.edu

Boulder County Campus

2190 Miller Drive
Longmont, Colorado 80501
303-678-FRCC

Larimer Campus

4616 South Shields Street
Fort Collins, Colorado 80526
970-226-2500

Westminster Campus

3645 West 112th Avenue
Westminster, Colorado 80031
303-404-5000

Brighton Center

At Brighton Learning & Resource Campus
1850 Egbert St., Suite 100
Brighton, Colorado 80601
303-404-5099

FRCC Online Learning

www.frontrange.edu/online

303-404-5513
or 970-204-8250

Gainful Employment Disclosure Information

The U.S. Department of Education requires colleges to disclose certain information about Title IV-eligible educational programs that "prepare students for gainful employment in a recognized occupation". The information provided is the best available to us and may only represent one year's data. The information may assist current and prospective students as they make their career and educational choices. For more Gainful Employment information, please go to the FRCC website:

www.frontrange.edu/GainfulEmployment/. The website also contains data on U.S. Department of Labor's Occupational Classification code by program, graduation rate by program, job placement rate by program, tuition and fees by program and median loan debt incurred by program.

Credits

©2013, Front Range Community College.

The Office of the Registrar and Publications produces this catalog.

- Project Coordinators:
Sandy Veltri, Vice President of Student & Academic Services
Ron Barros, Director of Academic Services
Sharon Findlay, CTE & Curriculum Affairs Coordinator,
College-Wide Credentialing Officer
Yolanda Espinoza, College-Wide Registrar
Jon Eggers, College-Wide Publications Coordinator
- Cover Design: Jay Demore

- Special thanks to the many FRCC faculty and staff who contributed to this catalog.

Accreditation

The Higher Learning Commission, a commission of the North Central Association of Colleges and Schools, accredits Front Range Community College (FRCC).

The Higher Learning Commission
North Central Association of Colleges and Schools
230 South LaSalle Street, Suite 7-500
Chicago, IL 60604-1413
1-800-621-7440 <http://www.ncahlc.org>

Please Recycle

Your gently used Class Schedules and Catalogs may be returned for use by other students if you drop them off at the Student Services Office on your campus.

Storm Water Notice

As a municipal separate storm sewer system (MS4) permit holder, FRCC is required by law to inform our students, staff, and visitors about our storm water permit requirements. Thank you for your cooperation and assistance as we continue to preserve our water quality. For more information please contact Patrick O'Neill at 303-404-5400.

Programs Accredited by Special Agencies

- Aromatherapy: Certificate in Holistic Health by the National Association of Holistic Aromatherapy (NAHA)
- Automotive Technology: National Automotive Technological Education Foundation, Inc. (NATEF)
- Automotive Youth Education Systems (AYES): Westminster has received Master Accreditation from the National Automotive Technician Education Foundation
- Dental Assisting: Commission on Dental Accreditation, a specialized accrediting body recognized by the Council on Postsecondary Accreditation and by the United States Department of Education
- Early Childhood Education: National Association for the Education of Young Children (NAEYC)
- Emergency Medical Services: Colorado Department of Public Health and Environment Emergency Medical Services and Prevention Division
- Heating, Air Conditioning and Refrigeration: Partnership for Air Conditioning, Heating and Refrigeration Accreditation (PAHRA)
- Kitchen and Bath Design: Certificate in Interior Design has earned accreditation from the National Kitchen and Bath Association (NKBA)
- Medical Assisting: The certified Medical Assisting Program is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org) upon the recommendation of the Curriculum Review Board of the American Association of Medical Assistants Endowment (AAMAE). CAAHEP, 1361 Park Street, Clearwater, FL 33756, (727) 210-2350
- Nursing: Colorado State Board of Nursing and National League for Nursing Accreditation Commission (NLNAC)

accredited at Boulder County Campus, Larimer Campus, and Westminster Campus

- Pharmacy Technician: American Society of Health System Pharmacists (ASHP)
- Phlebotomy: National Accrediting Agency for Clinical Laboratory Sciences (NAACLS), 8410 W. Bryn Mawr Avenue, Suite 670, Chicago, IL 60631-3415
- Practical Nursing: Colorado State Board of Nursing
- Veterinary Technology: American Veterinary Medical Association (Committee on Veterinary Technician Education and Activities)
- Welding: American Welding Society Accredited Test Facility (AWS/ATF), P.O. Box 440367, Miami, FL 33126
- Yoga Teacher: Certificate in Holistic Health is certified by the Yoga Alliance

Eligible programs are approved by the Colorado State Approving Agency for Veterans Education and Training.

The State Board approves vocational programs for Community Colleges and Occupational Education (SBCCOE).

Associate degree programs are approved by the Colorado Department of Higher Education (CDHE).

Mission and Strategic Plan

Our Mission

At Front Range Community College, we enrich lives through learning. Download Phase I of our Strategic Plan.

Our Vision

Our vision is that all students at Front Range Community College will accomplish their educational and career goals. We will be recognized for our singular focus on student success, our exceptional teaching, our strong commitment to diverse learners and communities, and our effective business and community partnerships.

Our Strategic Priorities

Student Success

FRCC supports and improves student persistence and completion through instructional excellence, exceptional student support services, and a commitment to the understanding that learning happens everywhere. Faculty, instructors, and staff are well-versed in the scholarship of teaching and learning as it relates to their area of expertise, and receive meaningful professional development and training to enhance their respective practices and support innovation. We improve student success with careful assessment and measurement and a commitment to using data to make effective decisions.

Opportunities for Diverse Learners and Communities

Our student body reflects the diversity of our communities because we create learning environments that welcome diversity in all its forms and actively engage the growing minority communities in our service area. All students benefit from our college services, which are welcoming, easy to navigate, and focused on learning, growth, and development of the whole student.

Strong Partnerships

We are the first-choice educational partner for industry, K-12 education, and community organizations. Local businesses value us for our high-quality instructional services that respond to immediate and long-term industry needs. We work closely with our business and community partners to educate and train highly qualified employees, develop a strong regional workforce, and identify opportunities for appropriate and responsible program development; consequently, the state of Colorado views us as a vital component of building a robust workforce.

Culture of Collaboration, Innovation, and Pride

We recognize that the success of this plan rests on the success of our employees and their ability to be responsive, dynamic, and creative. We are committed to a culture that supports innovation, creativity, collaboration, healthy work-life balance, and excellence in all that we do. We support and encourage additional staff training and professional development. We invest appropriately in additional staff whenever possible and necessary to provide quality service to students and work-life balance for our employees.

Resource Development and Sustainability

We are mindful of the importance of holding our institution in trust for future generations. To that end, we invest in safe, appealing facilities that meet student and staff needs and are viable in the long-term on all campuses. We also continue to be committed to fiscal responsibility and efficiency in all operations. With state funding uncertain, we invest in successful grant development and fundraising to broaden our funding sources.

Our Core Values

- **We value students.**
We value them as people and as learners and for the diverse perspectives they contribute.
- **We value teaching and learning.**
We value exceptional teaching in a dynamic and varied learning environment.
- **We value community.**
We value a sense of community and collaboration in partnerships. We identify ourselves as one college that supports many communities.
- **We value employees.**
We value the commitment, knowledge, diversity, and uniqueness of our employees. We value the strengths of our employees, as well as their potential.

Purpose

As an institution of higher education, Front Range Community College serves anyone 17 years of age or older who can benefit from college preparatory and two-year college-level credit instruction. We provide education and training, both in general education and in occupational areas, which may lead to a certificate; an associate degree in Applied Science, Arts, Science, or General Studies; or transfer to a four-year institution.

We serve individuals of all ages who benefit from non-credit instruction for personal and professional development, recreation and fitness, and individual and family enrichment.

We serve employees of local businesses and industries who benefit from workplace skills development from customized and/or credit-generating courses.

We serve all individuals in our communities by developing and enriching the local economy and culture.

Chronology: FRCC's Campuses

Fall 1968 — FRCC opens its doors in temporary quarters at East 62nd Avenue and Downing Street, Denver. Original name: Community College of Denver, North Campus (CCD-N). FRCC was the first community college created by the State Board for Community Colleges and Occupational Education.

Fall 1977 — CCD-N moves to its permanent home—the Westminster Campus, a new solar-heated facility on 112th Avenue.

July 1983 — Still part of the Community College of Denver system, the North Campus changes its name to Front Range Community College.

July 1985 — Front Range Community College becomes an autonomous community college.

July 1988 — The Larimer County Voc-Tec Center (LCVTC) merges with Front Range Community College to become FRCC's Larimer Campus. LCVTC had offered secondary instruction for the Poudre R-1, Thompson R2-J, and Park R-3 school districts since it opened in 1972, and had offered postsecondary and adult vocational-educational programs since fall 1973.

Fall 1990 — FRCC opens the Boulder Valmont Campus in an office building at 2995 Wilderness Place. The college had been offering classes in Boulder since 1983.

January 1995 — The FRCC Longmont Campus opens, fulfilling a long-standing dream of Longmont residents and the Longmont business community. From 1982 to 1994, FRCC had offered college classes to Longmont residents at Longmont High School and various other locations.

July 1995 — FRCC begins offering classes in the old Fort Collins High School building on Remington Street, which became known as the Remington Campus. Like the Oakridge Center, its predecessor, the Remington Campus was an auxiliary instructional site for the Larimer Campus.

July 1995 — Boulder Arapahoe Campus is formed from a temporary merger of FRCC and the Boulder Technical Education Center (TEC), a subsidiary unit of the Boulder Valley School District (BVSD). The campus reverted to the school district in July 1997 and is no longer part of FRCC.

September 1996 — Having outgrown its Wilderness Place location, FRCC's Boulder Valmont Campus moves to a stand-alone site in Boulder's Gunbarrel area and is renamed the North Boulder Campus.

February 1997 — The Higher Education and Advanced Technology Center (HEAT) opens at the former Lowry Air Force Base in Aurora. FRCC is one of the charter institutions at the new campus. The campus transferred to Community College of Aurora in September 2001.

August 1998 — In response to growing enrollment, the college renovates and expands campuses. The Longmont Campus doubles in size. A new Campus Center and joint-use College Hill Library are added at the Westminster Campus, and a renovated portion of Mount Antero Building and the new Challenger Point, Longs Peak Student Center, and joint-use Harmony Library are added at the Larimer Campus.

January 1999 — The Brighton Center opens in the former

Adams County Justice Center, now the Community Education Center. FRCC joins the CCCOnline consortium for online delivery of courses and degrees.

August 2003 — The Boulder County Campuses in the Gunbarrel area of Boulder and north Longmont reach capacity. FRCC combines the two sites into one larger Boulder County Campus located just southeast of the intersection of Hover Road and the Diagonal (Hwy. 119) in southwest Longmont.

December 2008 — The Brighton Center moves to a new home in the newly remodeled Brighton Learning and Resource Center, in the former Platte Valley Medical Center building.

August 2010 — Larimer Campus opens new science building, Sunlight Peak.

November 2011 — Boulder County Campus completes a renovation which includes new science and medical office technology labs, improvements to 16 general classrooms and the creation of two new classrooms, expansion of the Geographic Information Systems lab, and reconfigured office space that allows more academic advisors, financial aid counselors, and new faculty to meet with students.

January 2012 — Westminster Campus opens a Student Services Center in the heart of the campus. A Welcome Center greets students, who can then access Advising, Testing, Special Services, Financial Aid, Cashiers, Admissions and Records, and a 50-station Computer Commons.

March 2013 — Westminster Campus students approve a bond fee for parking lot safety improvements, including a new stop light and pedestrian walkways and additional close-in parking, and improvements to the Student Center, including a coffee bar, upgraded gym facilities, quiet study space, and a multipurpose performance space. Larimer Campus students approve a bond fee to contribute to funding \$24 million in projects, including a new Technology Building and expansions and renovations to four other buildings.

College of Communities

Front Range Community College's service area is vast, stretching from North Denver to the Wyoming border, and including all or portions of Adams, Boulder, Broomfield, Denver, Larimer, Jefferson, and Weld counties. With three campuses and one center serving more than 28,000 students, FRCC is the largest community college in Colorado.

FRCC offers programs and courses at its local campuses based on the needs of the students and communities served by those sites. Though many offerings are available at multiple sites, each campus provides a unique instructional mix and learning environment for its students. Student services are open to all students. Hours may vary and a few specialized services may require a visit to one of the larger campuses.

Boulder County: Located near the intersection of Hover Road and the Diagonal (Hwy. 119) in southwest Longmont, this campus serves students throughout Boulder County. With a sensational view of the Colorado Rockies to entice students, this campus specializes in general education and technology offerings, reaching out to students of other colleges and universities who need State Guaranteed General Education courses, and to students seeking to transfer to the University of Colorado and other four-year schools. Boulder County Campus offers a wide variety of programs, including Health

Professions, Medical Office Technology, Nursing, Geographic Information Systems, and Multimedia Graphic Design, as well as English as a Second Language and GED instruction. Students of the Boulder Campus participate in many Student Life activities, and the campus is also home to an active student government.

Larimer: Located at Shields Street and Harmony Road in the rapidly growing south side of Fort Collins, this former vocational-technical school is now a true college campus, offering a complete range of general education classes as well as many technical offerings. With close ties to Colorado State University, the campus offers unique opportunities in the areas of forestry, veterinary technology, clean energy technology, and horticulture. A science and classroom building, a student center with a cafeteria, and a joint-use library built in partnership with the City of Fort Collins (now a partnership with the Poudre River Public Library District) opened in 1998 with an additional science building added in 2010. An active student government serves the student body, and Student Life offerings include many clubs, publications, and other activities. Guaranteed-transfer classes and English as a Second Language and GED instruction are also offered at Larimer Campus Prospect site.

Westminster: Located at the crossroads of Adams, Boulder, Broomfield, and Jefferson counties on the north side of the Denver Metro area, the Westminster Campus offers students a wide range of technical degrees and certificates, transfer degrees, and general education courses, including a highly successful nursing program, regionally acclaimed sign language interpreter training program, and the only two-year horticulture program in the Denver metro area. English as a Second Language and GED instruction are also offered. The expansive, three-level campus offers full physical education opportunities with a gym and workout facility and boasts a full range of student activities, including student clubs, a school newspaper, and an active student government. The campus has a student center and the College Hill Library, jointly shared with the city of Westminster.

Brighton: Located at 1850 Egbert St., Brighton Center offers college preparatory, transfer, and technical courses in a newly renovated building. Student activities, support services, and personal attention provide students with the tools to succeed.

Commitment to Diversity

Diversity among faculty, administration and staff is one measure of quality within academic institutions; we seek to create greater diversity so that we reflect our community and our world.

FRCC strives to develop and foster human diversity in all of our activities, including:

- Student recruitment and support
- Staff recruitment and development
- Community relations
- Curriculum
- Institutional policy

FRCC is an equal opportunity educational institution and does not discriminate on the basis of race, color, national or ethnic origin, religion, sex, sexual orientation, or programs, activities, and employment.

The following statistics for the 2012 academic year provide the

general makeup of FRCC's student body:

- Median Age – 23
- Minority – 20.0%
- Men – 42.1%
- Women – 57.9%

Advisory Councils

The Front Range Community College Area Advisory Council is a seven-member council, appointed by the State Board for Community Colleges and Occupational Education. The council serves as a liaison between the college and the community and provides advice about long-range planning and how the college can best meet the needs of the communities it serves.

Also, each occupational program has an advisory committee whose members represent a particular business, industry, or professional area. Committee members assist in developing curricula and selecting equipment.

Enrollment Processes

Which Catalog to Use

This catalog is effective beginning Summer Semester 2013 for students enrolling at Front Range Community College for the first time. Continuing students who have not had a 12-month lapse in enrollment will be allowed to use the requirements listed in any catalog published while continuously attending the college. Students may not combine requirements from multiple catalogs in order to graduate.

Other Formats Available

This document is available in alternate formats for persons with disabilities. To request this catalog in an alternate format, please contact the disability services office at the desired campus:

Boulder County Campus: (303) 678-3922

Larimer Campus: (970) 204-8385

Westminster Campus: (303) 404-5302

Brighton Campus: (303) 404-5302

Application and Enrollment Procedures for New Students

Front Range Community College is an open-door institution and does not require a high school diploma or a specific grade point average (GPA) before enrolling. However, most students must take a placement exam to ensure they have the ability to benefit from the level of instruction offered at the community college.

1. Submit an Application for Enrollment

Application for Admission

Prior to enrolling at the college, students must complete and submit an Application for Admission online at www.frontrange.edu. This form also is available on campus. For those students who are currently attending a local high school and wish to enroll concurrently at the college, please review the section of this catalog dealing with the Admission of High School Students.

Student Identification Number

A state law initiated in 2003 requires that each Colorado postsecondary institution assign to each student a unique ID number that shall not be a student's Social Security Number. This number is your Student ID (SID). A Social Security Number is required for Financial Aid and College Opportunity Fund (COF) stipend recipients.

Declaring a Program of Study

Students should indicate their program of study when completing the Application for Admission. If a student decides to change their program of study, academic advising and career services staff are available to help. Changing a declared program of study may result in a change in degree/certificate requirements (see General Requirements for Degrees and Certificates) and may also have financial aid implications. (Consult with a Financial Aid Advisor.)

Each program has a unique curriculum code for computer entry purposes for those students applying online. The

program information listed in the catalog indicates this code.

Special Application Procedures

Some programs, such as nursing, allied health programs and Clean Energy Technology, have limited space and require special admissions procedures. Please review program requirements in this catalog, or contact the faculty advisor in those areas.

College Transcripts and Awarding of Transfer Credit

FRCC does not require transcripts from previous high schools or colleges for admission. However, if a student plans to complete a degree or certificate with applicable transfer credit, an official transcript must be sent directly to the college. As part of this process, students must complete a Transfer Credit Evaluation Request Form, available from the Office of Admissions and Records or on our website at: <http://www.frontrange.edu/transcripts/>. FRCC may deny admission or continued enrollment to persons who misrepresent their credentials or background. (See Rights Reserved section of this catalog.)

FRCC reserves the right to require transcripts from other institutions when appropriate.

Physical Examination and Immunization

Physical examinations and specific immunizations are not required for admission to the college. However, a selected instructional program, such as Health Professions, may require specific immunizations that include:

1. Hepatitis B or waiver
2. Diphtheria and tetanus
3. Proof of immunity to rubella
4. Tuberculosis

Privacy

In completing application and financial aid processes, students must act on their own behalf. Others may not access student academic or financial information without the student's prior written approval. (See Family Education Rights and Privacy)

Readmission (Former Students)

Former students, who return after an absence of 12 months or more, must reapply for admission. Degree and certificate requirements in effect at the time of readmission apply to readmitted students.

Student Classification

Students are classified by academic year and admission status according to the following definitions:

Academic Year

- **Freshman:** Successful completion of fewer than 30 college-level semester credit hours.
- **Sophomore:** Successful completion of 30 or more college-level semester credit hours.
- **Unclassified:** Awarded a degree at the associate level or above.

Admission Status

- **New Student:** Attending FRCC for the first time.

- **Continuing Student:** Attended FRCC within the past 12 months.
- **Readmitted Student:** Not attended FRCC within the past 12 months and re-entering the college.
- **Transfer Student:** Some prior college or university experience.

Residency

Students are classified as either a resident or non-resident of Colorado for tuition purposes at the time of admission. Colorado Tuition Classification is governed by State Law (Title 23, Article 7, of the Colorado Revised Statutes of 1973, as amended) and by judicial decisions that apply to all public institutions of higher education in Colorado and is subject to change at any time. Residency decisions do not transfer between Colorado colleges. Front Range Community College must apply the rules set forth in the residency statutes and is not free to make exceptions to the rules except as specifically permitted by law.

General Qualifications

- Resident status requires domicile in Colorado for one year immediately prior to the first day of class. Domicile is defined as a true, fixed, and permanent home and place of habitation. Domicile is a legal characteristic that everyone has, and students can have only one domicile at any one time. A student's domicile is a legal, primary residence.
- During the one-year domicile period, the student should comply with all legal obligations of a Colorado resident such as demonstrating proof of voter registration, Colorado income tax payment, Colorado motor vehicle registration, Colorado issued driver's license or ID card, and/or proof of employment.
- Students under the age of 23 (unemancipated minors) may be eligible for in-state tuition if a parent or court-appointed legal guardian has been domiciled and complied with legal obligations in Colorado for one year.
- Students whose parents are not domiciled in Colorado *may also qualify to begin the one-year domiciliary period* if the student is: at least 23 years old, married, or emancipated. Emancipation requires that the student's parents do not provide financial support of any nature or purpose. Parental support includes funds previously set aside for current support even if those funds are in the student's name. Parents may provide reasonable incidental gifts, but may not provide significant funds in order to be considered emancipated.
- There are several amendments to the Tuition Classification Law for certain populations of students including Olympic athletes, military personnel, inmates, recent Colorado high school graduates, GED recipients, etc. Please contact the Tuition Classification Officer at Front Range Community College to determine if you may be in an eligible population.
- FRCC sets a priority deadline for each semester that is typically one week before the start of the fifteen-week semester. Students who meet this priority deadline should know the petition decision before the deadline to drop courses for the fifteen-week semester. However, all students have up to 30 days after the first day of his/her term of admission or enrollment to petition for in-state tuition. The Tuition Classification Officer may request

additional documentation as the burden of proof rests upon the petitioner to substantiate the claim of resident for tuition classification purposes. The Tuition Classification Officer notifies the student of the outcome within 30 days of the decision via email and/or standard letter (For information about appealing procedures, please see Appeals Section)

Initial Classification

The initial tuition classification decision is made by the designated Tuition Classification Officer in the Admissions and Records Office for the semester in which the student is admitted. The classification is based on the information provided on the application for admission. Failure to answer all questions could lead to a non-resident classification. After the student's status is determined, it remains unchanged in the absence of further action and evidence to the contrary.

Changes in Tuition Classification

Any student who believes that the tuition classification decision is not correct or whose information has changed and now wishes to prove eligibility for in-state tuition, may petition for in-state tuition or resident classification and should contact the Tuition Classification Officer for assistance. Petition forms are available online at www.frontrange.edu/residency or at the Admissions and Records Office.

Correction of Residency Determination Due to an Error

FRCC reserves the right to correct a residency determination after the 30-day deadline in cases where the college believes an error was made.

Non-Resident Students and the Western Undergraduate Exchange (WUE) Program

WUE is the Western Undergraduate Exchange, a program coordinated by the Western Interstate Commission for Higher Education (WICHE). Through WUE, students in some western states may enroll in many two-year and four-year public college programs at a reduced tuition, which at FRCC is 150% of the total cost of resident tuition. WUE students are not eligible for the College Opportunity Fund stipend, but WUE tuition is considerably less than non-resident tuition. Please contact the Admissions and Records Office for a current list of WUE participating states.

HB1023 Verification

HB06S-1023, which was signed into law on July 31, 2006, requires CDHE and institutions of higher education, including FRCC, to verify the lawful presence of all applicants for public postsecondary education benefits. Applicants who fail to meet verification requirements may be subject to non-resident tuition and removal of COF funds and other state funded aid. For more information, please refer to <http://highered.colorado.gov/finance/Residency/requirements.html>.

High School Students Seeking Concurrent Enrollment Options

High school students attending FRCC may earn both college and high school credit for their course(s). Students approved by their school district may either be reimbursed for tuition costs, or have tuition costs paid up front for approved classes. A written agreement must be completed, approved by the

school district, and submitted to the college. Interested students can obtain more information from their high school or speak with concurrent enrollment staff at Front Range Community College.

Underage Admissions

FRCC complies with the SBCCOE policy to admit students who are 17 years of age or older. Students wishing to secure a waiver of the minimum age for admission must meet the following criteria:

1. Qualified students must demonstrate readiness for college-level work by meeting all state-established cut scores for college-level English, reading, and mathematics.
2. Students must meet with an advisor or designated staff member to determine eligibility for admission and appropriateness of course selection, review college expectations, and complete the underage consent form.
3. High school students enrolled under Concurrent Enrollment or in the Gateway to College program who are 16 by the start of classes may be eligible for an automatic waiver because of their enrollment in those programs. See program staff for additional details.

International Students

According to federal law, the college may enroll nonimmigrant alien students, or international students with an F-1 Visa. Please refer to International Student Admissions at www.frontrange.edu/international.

International students must complete the following procedures to be admitted to the college:

1. Submit a completed Application for Admission, Supplemental Information Form, and Affidavit of Financial Support document.
2. Submit one English translated copy of:
 - a. High school transcript indicating completion or graduation date
 - b. College transcript from any other college or university attended
3. Submit certified documentation of English proficiency as indicated by:
 - a. Test of English as a Foreign Language (TOEFL) score of 153 on the computer based exam (FRCC code is 4119), or Internet Based Test (IBT) score of 53, or
 - b. International English Language Testing System (IELTS) score of 6.0 or higher, or
 - c. Other approved exceptions (i.e. English as a Second Language programs)
4. Submit the Affidavit of Financial Support document, and a statement of the student's or the sponsor's financial resources in United States currency. The statement must show minimum funds of US \$20,000 deposited in a financial institution to cover expenses for each academic year, and be notarized by an official of the financial institution. Arrangement for payment of tuition and fees must be made with the campus cashier by the payment deadline. Students sponsored by foreign governments must submit a valid authorization. While the college bills approved third parties for tuition and fees, international students are ultimately responsible for payment of all tuition and fees.

To be considered for admission, international students must submit all materials to the Office of Admissions and Records by these deadlines:

Out of Country

- Summer Semester – April 15
- Fall Semester – June 15
- Spring Semester – November 15

In Country

- Summer Semester – May 1
- Fall Semester – August 1
- Spring Semester – December 15

After materials are reviewed and approved, the college issues the United States Immigration Form I-20. Tuition and fees for nonimmigrant alien students are approximately \$10,000 for full-time enrollment per academic year. Students need approximately \$10,000 for books, supplies, medical insurance, and living expenses during the academic year. FRCC does not have residence halls; therefore, students are responsible for finding their own housing.

After being admitted, international students must complete the following in order to remain in their classes:

1. Present proof of current and adequate medical insurance one week prior to the start of classes, or the student will be dropped from all courses and Student and Exchange Visitor Information System (SEVIS) will be notified. The college has provisions to insure international students under a comprehensive plan. Information may be obtained from the International Student Admissions Officers. If international students do not have comparable medical coverage, they are required to purchase the FRCC medical and health insurance policy.
2. Complete assessment testing for placement into courses. This assessment may be taken online in the student's home country. Contact the Testing Center for more information.
3. International students must meet with an advisor for academic advising, attend required orientation, and complete payment of tuition and fees with the cashier.

2. Assessment for Placement

The State of Colorado mandates that incoming students to Colorado's state-supported institutions of higher education complete an assessment of basic skills and enroll in appropriate courses based on the assessment outcomes. At FRCC, students must complete the Accuplacer placement assessment or secure an exemption before registering for courses.

The Accuplacer assesses students' skill levels in English, reading, and mathematics. Components of this process may include the assessment of reading comprehension, word usage and mechanics, essay writing (Write Placer), and mathematics. The assessment is computerized, untimed, and requires approximately two hours to complete.

Students are required to meet minimum scores to enroll in specific classes. However, if the minimum scores are not achieved, this may not affect the student's admission to the college. The assessment scores required for placement in specific courses are available in the campus advising centers and testing centers.

Accommodations

Reasonable accommodations will be provided upon request for persons with documented disabilities. If you require accommodations to participate in assessment, please notify the Office of Disability Services at your local campus.

Pre-Assessment Preparation

A student cannot “fail” an assessment test, but the scores do dictate the level of courses in which the student is allowed to enroll. Pre-assessment activities may be available on campus. Contact advising (www.frontrange.edu/advising) or testing centers (www.frontrange.edu/testing) for further information.

To assist students, computer links and study guides regarding the assessment test are available on the FRCC website: www.frontrange.edu/testing. Click on Study Guides (college-wide).

Assessment Exemptions

Students who meet one of the criteria listed below are exempt from taking the assessment test:

1. Possess an Associate of Arts or Associate of Science Degree or higher from a regionally-accredited college or university.

Note: Associate of Applied Science and Associate of General Studies Degrees do not qualify for this exemption.

2. Completed an English composition (to be exempt from English and Reading tests) and/or mathematics course (to be exempt from math test) with a grade of “C” or better at a regionally accredited college or university.
3. ACT or SAT scores may exempt you from the assessment. Scores must be from ACT or SAT testing within the past 5 years. Please go to www.frontrange.edu/testing for required scores.
4. Enrollment in only one course for either employment enhancement or personal interest.
 - a. *Students under 20 years of age are not eligible for the one-course waiver. CDHE requires that all students under the age of 20 be assessed or provide the required waiver exemption for reporting to the secondary schools.*
 - b. *State guaranteed general education transfer (GT) courses are not eligible for the one course waiver.*
 - c. *English and mathematics courses are not eligible for the one course waiver.*
5. Enrollment in selected programs of one term or less.

Students under 20 years of age must be assessed unless they qualify for an exemption under #1, #2, or #3.

To request an exemption, students must bring the appropriate documentation (college transcripts, diploma, or ACT/SAT scores) to the Testing Center or to an academic advisor.

Assessment of English as a Second Language Students

Students for whom English is a second language, including international students, may be required to take the ESL portion of the Accuplacer assessment for placement into ESL courses.

Students for whom English is a second language enrolling in credit courses must take the Accuplacer or qualify for an exemption before enrolling in classes.

Note: International students attending the college on an F-1 student visa are required to contact their campus International Student Admissions Officer to schedule an orientation.

3. Academic Advising

Advising assists students in planning their educational objectives and provides an opportunity for students to meet faculty and staff outside the classroom. Advising is an ongoing process, and students should consult with an advisor regularly.

In order to promote student success, the college requires all new students to meet with an advisor before registering for classes. Continuing students are strongly encouraged to meet with an advisor each semester before registering and at other times throughout the year as needed.

Academic advising options for new and continuing students vary by campus and include appointments and drop-in advising. Contact the appropriate campus to schedule an appointment, or stop by to receive more information about advising. For hours and contact information, visit www.frontrange.edu/advising

4. Choosing or Changing Program of Study

Degree and certificate programs are identified as specific programs of study. A student declares a program of study when first enrolling and should verify the program by checking their online student account on eWOLF each semester. Students should consult this catalog to determine available programs of study. For those students who are undecided, please contact an advisor. Changing a declared program of study may result in a change in degree/certificate requirements (see General Requirements for Degrees and Certificates) and may also have financial aid implications. (Consult with a Financial Aid Advisor.)

5. Password

When accessing your eWOLF account for the first time, you will be asked to enter a password; the initial password is your birth date (mm/dd/yy). Next, you will be asked to set a password recovery security question and then, to set a new custom password. The student password is not provided over the phone or via email. It is important that you securely retain your password so that you can use your eWOLF account to access grades, transcripts, online registration, financial aid, etc.

6. Registration

Registration instructions and class schedules are published at www.frontrange.edu for each semester. Registration instructions are also available online in both text and video format at <http://www.frontrange.edu/Prospective-Students/Getting-Started/>.

Students may register for courses, add/drop, withdraw from courses, make payment, and obtain grades through eWOLF on the FRCC website at www.frontrange.edu. Additionally, students may change their address or password, print unofficial transcripts, request an official transcript, and check their financial aid.

Course Waitlist

The waitlist allows students an opportunity to get into a course that is full, but could have space available before the course begins. Not all courses are available for waitlist. Special conditions apply to the number and type of courses in which a student may concurrently waitlist and enroll. See class schedule for more information and procedures.

Financial Matters

This section of the catalog explains the financial information students need to know to make informed decisions about attending college.

The latest tuition and fee rates are available online at Front Range Community College's website, <http://www.frontrange.edu/Prospective-Students/Tuition-and-Fees/>.

IMPORTANT INFORMATION FOR RESIDENT STUDENTS: SIGN UP FOR THE COLLEGE OPPORTUNITY FUND. The total cost of a student's education, called tuition, includes the state's portion of tuition and the student's portion of tuition. While the state has always paid a portion of a resident student's cost of education, beginning fall semester 2005, it is no longer automatic. Resident students must sign up for the College Opportunity Fund (COF) and authorize its use or pay the total cost of education, including the state and student's portion of tuition. Students must sign up once to create a lifetime account and then authorize the state to pay the student's portion each semester in the form of a COF stipend. There is a lifetime credit limit of 145 undergraduate credit hours, although some waivers may apply. For more information, go to the FRCC website at www.frontrange.edu/cof. You can also sign up for COF or check your COF account at www.collegeincolorado.org.

Explanation of Fees

A variety of fees are charged at our campuses. The following fee descriptions explain the different types of fees and their purposes.

Registration Fee***

A flat registration fee is charged each semester, regardless of the number of courses taken. It is refundable if all courses for the semester are dropped before the end of the drop period.

Course Fees**

To defray the cost of consumable materials and supplies, some courses are assessed a per credit hour course fee. These fees are listed with relevant courses in the Class Schedule located at www.frontrange.edu.

Pass Through Fees**

Certain courses and/or programs require services performed by outside parties. One example is malpractice insurance. These fees are listed with relevant courses in the Class Schedule located at www.frontrange.edu.

Student Center / Campus Center Bond Fee**

To fund the bond that constructed new student center facilities, Westminster Campus students pay a flat Campus Center fee each semester. Larimer Campus students pay a per credit hour fee, up to a maximum of 12 credit hours. The current fee amounts can be found on our website <http://www.frontrange.edu/Prospective-Students/Tuition-and-Fees/>.

Student, Parking and Facility Fees**

Student fees are charged at a per credit hour rate and support the operation of various Student Life services and the maintenance of parking services on each FRCC campus; student fees are subject to change. Student Life services include all student publications such as the *Boulder County Sun* (journalism class project), *The Front Page* (the recognized student newspapers/newsletters), and *The Rangeview* (a student news publication at the Larimer Campus); the official Student Handbook; and the programs and activities that supplement learning experiences at the college. Fees also assure that, via a variety of recognized student organizations and clubs, students have an official voice in matters of college life.

The current fee amounts can be found at our website, <http://www.frontrange.edu/Prospective-Students/Tuition-and-Fees/>.

Fee Disputes

Student fee proposals or any issues relating to student fees may be disputed by filing a formal written complaint (see *Student Complaints*). A formal, written complaint is one regarding some alleged type of adverse action against a student from a decision made by the institution or alleged violation of student rights. Fee assessments/increases approved at a student election are not subject to the dispute process.

Tuition and Fee Payment

Payment is due by the close of business on the payment deadlines specified at www.frontrange.edu/payment. Regardless of the payment method (financial aid-grants, scholarships or loans; Deferred Payment plan; third party payment; or payment in full by student, parent, or other), it is the student's responsibility to ensure that payment to cover all tuition and fees is made prior to the published deadline. For enrollments that take place after the published payment deadline, payment is due by the close of the next business day. If payment is not received by the published deadline, the student risks being dropped from all courses for non-payment (or underpayment), and may only re-enroll if space is available in desired courses. Please note that changes to the student's schedule can result in an outstanding balance.

Even though FRCC intends to drop students who do not pay by the published deadline (or in cases where the deadline has passed, by close of the next business day), the college cannot guarantee that classes will be dropped for unpaid accounts. Students are responsible for dropping classes even if they do not pay on time. If they do not, they will be held responsible for any balance owed. If the student is not planning to attend FRCC, he/she must log in to his/her student account in eWOLF and drop classes by the published add/drop date for the course.

Payment options include:

- Mail the payment (check or official employer/agency authorization only) to the Cashier's Office. Payment must be received by the deadline.
- In person at the Larimer, Boulder County and Westminster Cashier's Offices by cash, check, money order, Visa, MasterCard, or official employer/agency authorization. Please

note: **cash payments are not accepted at Brighton Center.**

- Online at www.frontrange.edu with Visa or MasterCard by accessing the student account in eWOLF.
- Sign up for a Deferred Payment Plan in eWOLF at www.frontrange.edu/.

Deferred Payment

The college utilizes Nelnet Business Solutions, Inc. (formerly known as FACTS), an independent firm, to administer and manage its deferred payment plan. All deferred payment arrangements are created online in eWOLF. For more information go to www.frontrange.edu/cashiers.

You need to know:

- If you withdraw from courses after the drop/refund period, you are still responsible for completing your payments.
- You will not be dropped from your current semester's classes if you fail to make payments on your deferred payment plan. However, a financial hold will be placed on your account, and you will be dropped from courses in future terms for which you have already enrolled. FRCC and a collection service will pursue unpaid balances and you will be held responsible for any collection charges.
- If you have a financial hold on your account, you are not eligible to register.

Financial Obligations of Students

Financial obligations are due and payable to the college when incurred and are payable by the established payment deadlines. An authorized third party may be billed for tuition and fees; however, ultimate responsibility for payment remains with the student.

Students who are financially obligated to FRCC—whether through returned financial aid, a third party promise to pay, outstanding deferred payment, or failure to account for college property in their possession—are not issued an official transcript or allowed to register again until payment is made.

Bad Checks

Returned checks constitute nonpayment. If a check is returned prior to the official drop date due to insufficient funds or stop payment, the student is dropped from all classes and charged a bad check fee. A hold will be placed on the student's grades, transcripts, and future registration. If a check is returned after the official drop date, the student will not be dropped from classes and will be responsible for all outstanding tuition, fees, bad check fees, and resulting collection charges. A hold will be placed on the student's grades, transcripts, and future registration.

Credit Card Charge Backs

A Credit Card charge back constitutes non-payment. If your credit card charge is reversed before the drop date, you may be dropped from all of your classes and will be charged a \$15.00 fee. A hold will be placed on your grades, transcripts, and future registration. If your credit card charge is returned after the drop date, you will not be dropped from your classes. You will be responsible for all outstanding tuition, fees, credit card charge back fees, and resulting collection charges. A hold will be placed on your grades, transcripts, and future

registration.

Delinquent Accounts

In accordance with state policy, all delinquent student obligations, including those from improper withdrawal/drop procedures and the loss of previously awarded financial aid, are referred to the state's central collections service.

Nonattendance

To end enrollment in one or more courses, students must drop or withdraw from the course. Students may do this online through their student account in eWOLF, or by submitting the appropriate drop or withdrawal form to the Office of Admissions and Records by the published deadline. If the student does not attend the course, he/she may be dropped for nonattendance.

Dropping or withdrawing from courses may affect a student's financial aid status and/or Veterans education benefits. Contact the Financial Aid Office or the Veterans advisor for policy information.

Tuition and Fee Refunds

All refunds will be issued electronically based on the selected Higher One refund preference. Refunds will be issued within 14 days of appearing on the student's account, beginning after the first day of classes for any given term. For financial aid students, refunds begin after the last day to drop for the full semester. For more information, go to www.frontrange.edu/refund.

Refunds for Dropped Courses

Tuition and fees (except the deferred payment fee) are refunded if a student drops all courses before the end of the drop period. The drop period usually extends through the 12th day of instruction for fall or spring semesters, or through 15 percent of the instructional days for terms or classes less than 15 weeks long. No tuition and fee refunds are granted after the drop period. Information about repayment of Title IV funds is available from the Financial Aid Office.

Refunds for Canceled Classes

One hundred percent of tuition and fees (except the deferred payment fee) is refunded for any class canceled by the college. All refunds will be issued electronically based on the selected Higher One refund preference. Refunds will be issued within 14 days of appearing on the student's account, beginning after the first day of classes. If a course is canceled, financial aid will be adjusted based on actual enrollment. For more information, go to www.frontrange.edu/refund.

Financial Aid

The Financial Aid Office advises students and/or families and administers funds that are designed to assist students in meeting their educational expenses. Front Range Community College (FRCC) participates in grant, work study, loan, and scholarship programs. Funding sources for these programs include federal, state, institutional, and private sources. Information regarding financial aid programs may be obtained online from the Financial Aid website, www.frontrange.edu/financialaid, or any of the FRCC Financial

Aid Offices. We will make every effort to help students in financing their college education, which may involve drawing on a number of aid sources.

Application Procedure

1. Submit an Application for Admission to FRCC. Financial aid awards will only be made to students who have been accepted for admission and are in an eligible degree and/or certificate program. Not all degree and/or certificate programs offered by FRCC are eligible for financial aid.
2. Submit a Free Application for Federal Student Aid (FAFSA). The application is available on the U.S. Department of Education's website at www.studentaid.gov.
 - a. There is a priority date of April 1st for completing the FAFSA in order to be eligible for certain available funds.
 - b. A new FAFSA must be submitted each year.
3. Financial aid applications will be accepted throughout the year.
4. Submit all requested documentation to the Financial Aid Office as soon as possible to expedite the process. Awards will not be made until supporting documentation is complete.
5. Award notifications for the fall term are generally sent beginning the prior spring term and continue throughout the award year.

Financial Aid Eligibility Criteria

To qualify for assistance, students must meet at least the following criteria:

1. Be accepted in an eligible degree and/or certificate program.
2. Be a citizen or permanent resident of the United States.
3. Be registered with Selective Service (if required).
4. Have a high school diploma or passed the General Equivalency Diploma (GED).
5. Not owe a refund on a Federal Grant or be in default on a Federal Educational Loan.
6. Apply in a timely manner and submit all documentation and/or information needed by the Financial Aid Office to make a determination of eligibility.
7. Be making Financial Aid Satisfactory Academic Progress.

Financial Aid Satisfactory Academic Progress Policy

Each institution that receives Title IV funds is required by the U.S. Department of Education, Section 132 of the Higher Education Amendments of 1976, to define and enforce standards for Satisfactory Academic Progress.

Satisfactory Academic Progress measures a student's performance in the following three areas/criteria: completion rate, cumulative GPA and maximum time frame. The Financial Aid Office is responsible for establishing and monitoring a standard of "Satisfactory Academic Progress" for continuation of financial aid eligibility. In order to be eligible to receive financial aid (federal and/or state and at times institutional aid), the student must be making satisfactory progress toward an eligible degree and/or certificate, as identified in the quantitative (the completion rate of all attempted credit

hours) and qualitative (the cumulative GPA) standards of the policy.

Academic progress may be reviewed at the time a financial aid application is received and will be reviewed at the end of each term. The maximum time frame allowed in which a student is expected to complete their eligible degree and/or certificate is within 150% of the number of credit hours required for the specific program. All attempted credit hours are considered with the maximum time frame allowed, which includes all transfer credits and courses taken at Front Range Community College as a high school student. The standard of satisfactory academic progress must include a student's total academic history at Front Range Community College regardless of whether the student has previously received financial assistance. If a student does not meet the requirements, they become ineligible for financial aid and have the right to appeal an ineligible status. A complete copy of the policy and appeal information is available online at www.frontrange.edu/financialaid.

Funding Sources

Grants

1. **Federal Pell Grants.** The Federal Pell Grant is a federal aid program designed to provide financial assistance for postsecondary education. Awards are established with documented need and amounts determined by the Federal Government. Students must complete a FAFSA.
2. **Federal Supplemental Educational Opportunity Grants (FSEOG).** A federal grant designed to provide assistance to documented exceptionally needy students to help pay for postsecondary education. Awards must not exceed \$4,000. Students must complete a FAFSA. Funds are limited.
3. **Colorado Student Grants.** The Colorado Student Grant program is funded by the Colorado General Assembly and is designed to provide assistance to qualified undergraduate students with documented financial need at state institutions of higher education. Students must be Colorado residents and complete a FAFSA. Funds are limited.

Work Study

1. **Federal Work Study** - This is a federally funded work program with a portion of the funds contributed by the college. Awards are made only to students who have documented financial need. A wide variety of positions are available on or off-campus. Off-campus jobs are available with non-profit agencies and local elementary schools. Students must complete a FAFSA. Funds are limited.
2. **Colorado Work Study** - This funding is by the Colorado General Assembly for an employment program awarded to Colorado residents with documented financial need. A wide variety of positions are available on or off campus. Students must complete a FAFSA. Funds are limited.
3. **Colorado No-Need Work Study** - This funding is by the Colorado General Assembly for an employment program awarded to a limited number of Colorado residents without documented financial need. Students must complete a FAFSA. Funds are limited.

Loans

1. **Federal Subsidized Stafford Loan.** These are loans based on documented financial need. Repayment begins six

months after the student has graduated or is no longer attending at least six credit hours. If applicable, partial or full origination fees may be deducted prior to disbursement of funds. Students must complete a FAFSA.

2. **Federal Unsubsidized Stafford Loan.** These loans are not based on financial need. Repayment begins six months after the student has graduated or is no longer attending at least six credit hours. If applicable, partial or full origination fees may be deducted prior to disbursement of funds. Students must complete a FAFSA.
3. **Federal Parent Loan for Undergraduate Students (PLUS).** These loans are made to parent(s) with good credit histories to help pay educational expenses of dependent, undergraduate students enrolled at least half-time. Amounts are limited to the cost of educational expenses minus other aid. If applicable, partial or full origination fees may be deducted prior to disbursement of funds. Repayment begins 60 days after the final disbursement. Students must complete a FAFSA.

Scholarships

Scholarships are available from several sources, and the criteria for awards vary. Each scholarship is awarded under provisions of the particular scholarship program. The majority of FRCC scholarships require some type of application. For a complete description of all FRCC Foundation scholarships and appropriate application procedures, visit www.frontrange.edu/financialaid. In addition, FRCC administers scholarship funds that are provided from funds received through corporations, businesses, foundations, individuals, civic organizations, and service clubs. Applications for these scholarships can be obtained through free online scholarships searches, high school counselors, and the grantor of the scholarship.

Summer Aid

Funding for summer generally consists of unused academic year Federal Pell Grants and Federal Stafford Loan (Subsidized and/or Unsubsidized), or PLUS Loan eligibility.

Additional Information

Detailed information about financial aid grants, work study, loans and scholarships, application processes and procedures, rules and regulations governing the various programs, and cost of attending FRCC are available by visiting www.frontrange.edu/financialaid or at the Financial Aid Offices. Contact can also be made by calling one of the telephone numbers listed below or sending an email to askfa@frontrange.edu.

Campus	Phone Number
Boulder County Campus	303-678-3696
Larimer Campus	970-204-8376
Westminster Campus	303-404-5250
Brighton Center (limited services)	303-404-5250

Services for Students

This section of the catalog describes programs and services available to students.

Student Services

Academic Advising

Academic advising is required for all new students and encouraged for continuing students. Advisors assist students in clarifying goals, exploring career options, and selecting courses and programs in order to:

- Transfer to a four-year college or university
- Earn a certificate or an associate degree
- Strengthen academic skills in English, mathematics, and other areas
- Upgrade job skills
- Satisfy personal interest

Admissions and Records

The Office of Admissions and Records processes all incoming applications for admission; admits international students; conducts student registration; processes adds, drops, and withdrawals; contacts students for lawful presence verification; records grades; issues transcripts, certificates, and degrees; processes graduation requests; evaluates incoming transcripts from other institutions; and maintains permanent records.

Bookstores

The Boulder County, Larimer, and Westminster Campuses have permanent bookstores that provide textbooks, supplies, and other items. The Brighton Center has limited bookstore hours during the first week of each semester. Textbook titles vary from campus to campus, and it is recommended that students purchase books at the campus where they attend class. Financial aid recipients should contact their Financial Aid Office for bookstore account information.

Brighton Center Services

The Brighton Center provides the following services: admission- and registration-related activities, testing, academic advising, academic support services, financial aid, and student life activities. Please contact the site for more information.

Campus Security & Preparedness / Accident Reports

Campus Security & Preparedness enforces public safety, parking regulations, and the smoking policy.

If an injury occurs on campus, the injured party must report the accident within 24 hours. Injuries should be reported to Campus Security & Preparedness at the Boulder County, Larimer, and Westminster Campuses and to the Office of the Director at the Brighton Center.

Career Counseling

Counselors assist students with career planning through career assessments, counseling, and research. This process may occur in workshops or individual sessions. Fees may be

charged for career planning workshops and career assessments. Numerous resources are available to assist in career research. These services are located in the advising department at each campus.

Child Care

Boulder County students may call Children's Services, 303-441-3180 for childcare referrals. Larimer County students should call Child Care Resource and Referral at the Early Childhood Council of Larimer County, 970-377-3388. Brighton Center and Westminster Campus students should call Adams County Childcare Referral, 303-451-1061.

Computer Labs

FRCC provides up-to-date computer laboratory classrooms on all campuses for students to use. Please see the legal notices section of this catalog for FRCC's policy on computer virus protection.

Crisis Counseling & Stress Management Services

FRCC offers crisis counseling services to assist students in solving problems that may interfere with success in college. These services may include referrals for community counseling or intervention services.

Disability Services

Support services are available for students with documented disabilities. Services include:

- Interpreters for students with hearing impairments
- Note takers
- Text in alternate format
- Assistive devices
- Test accommodations

Accommodations are provided by request for students who document disabilities through the Office of Disability Support Services at their campus. For more information, go to www.frontrange.edu/Current-Students/Learning-Resources-and-Support-Programs/Disability-Services.

Educational Opportunity Centers

Three Educational Opportunity Centers are located within the college's service area and provide students with free counseling, career research, assistance with financial aid applications, and information on postsecondary educational institutions. The centers are in Greeley at 1220 11th Avenue, Suite 203 (970-352-3235); in Fort Collins at 419 Canyon Avenue, Suite 312 (970-221-4421); and in Northglenn at 10701 Melody Drive, Suite 300, 80234 (303-280-8705; fax 303-280-8715). An EOC counselor is available at the Boulder County, Larimer, and Westminster Campuses, as well as the Brighton Center, to assist in completing financial aid applications.

Electronic Information Sources

FRCC has up-to-date information, including current class schedules, at the FRCC website www.frontrange.edu. In addition, students may access their own student information on eWOLF by logging in at www.frontrange.edu.

English as a Second Language

The college provides instruction in English as a Second

Language for speakers of other languages to learn or improve their skills in English. Instruction is provided in an enjoyable environment that emphasizes improving the student's comfort level in communicating in English. For further information, go to www.frontrange.edu/academics/ESL.

Fitness Center

Larimer Campus and Westminster Campus Fitness Centers are fully equipped fitness facilities. At the Larimer Campus, the goal of all programs and courses is to give participants the knowledge needed to develop and perform an effective exercise program. Participants will complete a medical and health history review and equipment orientation if needed. Assistance with the development of a physical fitness program is also available. Our instructors have the knowledge and experience to assist students in completing a variety of health and fitness goals. The facilities include weight machines, free weights, and a variety of cardiovascular equipment. The Westminster Center also includes a walk/jog track and basketball/volleyball court. We also provide a variety of equipment suited for most limitations including both upper- and lower-body challenged individuals.

For more information, call the Larimer Campus Fitness Center at 970-204-8351 or visit the Center in LP-113. For the Westminster Campus Fitness Center, call 303-404-5159 or visit the Center in room B-0607.

Food Service

On the Boulder County, Larimer, and Westminster Campuses, food service is available in the Student/Campus Centers. Vending machines are available at all campuses.

Housing

The college does not have residence halls. Students are responsible for their own housing arrangements.

Information

Information Centers are located at the Student Information Centers in the Administrative and Classroom Buildings on the Boulder County Campus; the reception area of the Brighton Center; the Mount Antero building, the Longs Peak Student Center, and Prospect Site at the Larimer Campus; the Campus Center, the Writing and Academic Skills Center, and the main entrance of Level C West, at the Westminster Campus.

Gateway to College (GtC)

On the Westminster Campus, Gateway to College allows high school drop-outs or students near dropping out an opportunity to return to school and earn both high school and college credits. Students must meet specific eligibility requirements and live in specific school districts. Visit www.frontrange.edu/gateway for additional details.

General Education Development (GED)

On the Boulder County Campus (The Learning Center) and the Westminster Campus (Writing and Academic Skills Center), staff assists students enrolled in GED preparation courses to develop skills and knowledge in preparation for taking the General Education Development exams. At the Larimer Campus off-campus Prospect Site, GED preparation is provided by the Center for Adult Learning. Students work on writing skills, social studies, literature and the arts, science, and mathematics.

Learning Support Services

FRCC offers a variety of services to provide instructional assistance in content areas. We also offer assistance with English as a Second Language, GED preparation, and basic skills development.

Boulder County's Student Success Center is a comprehensive facility that supports instruction through individualized assistance. Boulder County students may use the Student Success Center at no expense to ensure their academic success. Students are able to receive assistance through writing and math labs, tutoring, and by learning academic success strategies.

Larimer's Learning Opportunity Center provides academic support services to students in math, English, and science classes; those seeking help with writing assignments for any class; and any student who wishes to improve learning skills including studying, note taking, and time management. Students with a disability are also supported through the Assistive Technology lab.

Westminster's Learning Support Services include the Writing and Academic Skills Center (WASC), Math Lab, various discipline specific skills labs, individual and group tutoring.

Brighton Center's Learning Development Center provides drop-in tutoring in English, mathematics, and other subjects. Additionally, Skills Tutor software provides assessment and customized lesson plans for skill improvement.

Tutoring

Supplemental tutoring services are available for qualified students experiencing academic difficulty. Instructor referral is required, and students must meet eligibility requirements.

Libraries

FRCC provides three full-service libraries for its students. Two of these libraries represent collaborations with local public libraries.

The College Hill Library is located at the west end of the Westminster Campus. This library is jointly shared with the Westminster Public Library.

The Harmony Library building is on the west side of the Larimer Campus and is operated in partnership with the Poudre River Public Library District.

The Boulder County Campus Library is located in the southwest corner of the Boulder Campus Administration building.

In the libraries, staff members provide expert assistance and a variety of materials, including books, magazines, professional journals, newspapers, indexes, and other printed sources. The libraries also provide online access to academic databases and e-books. These online resources can be accessed on or off campus.

FRCC libraries participate in partnerships that allow students to check out materials from other Colorado libraries, including the University of Colorado and Colorado State University. Inter-library loan service is also provided, which allows students to obtain books, articles, and media from other libraries.

All FRCC libraries have strong bibliographic instruction programs to assist students in successfully using the information resources available to them. Electronic classrooms

on all campuses allow for demonstration and practice of searching databases.

Media Services

Media services are available at all FRCC sites. Media collections include interactive computer programs and videotapes. Individual viewing and listening equipment is available at most campuses.

Special Services

Single Parent Program

The Larimer Campus provides support for single parent students in their successful completion of a chosen educational program. Students in this program have access to numerous tools and resources intended to help them stay in college and earn a degree or technical certificate.

Disability Services

Accommodations are provided on request for students who document disabilities at least three weeks prior to the date needed. Contact the Office of Disability Services for more information and an appointment.

Student/Campus Centers

Boulder County Campus

The Student Center at the Boulder County Campus is the major focal point for student activities. The center provides access to multiple services including a game room, conference facilities, the Front Range Cafe, and the Bookstore.

Brighton Center

The Brighton Center offers cultural, educational, and social activities through student life events and student club activities.

Larimer Campus

The Longs Peak Student Center is a major focal point for campus student activities. The center provides access to multiple services including lounge areas, conference facilities, and food service, and also houses the Bookstore.

Westminster Campus

The Campus Center at Westminster Campus is the setting for numerous programs and activities. The center provides food service and conference facilities, and also houses the Bookstore.

Student Email

Each new student will automatically receive an email account with FRCC when registered. The Colorado Community College System - assigned email account shall be the primary official means of communication with students. The System expects that students sign in and check their college-issued email account on a frequent and consistent basis as students are responsible for all information sent to them via their system-assigned email account. This account is free of charge and active for life. Students may access their email account by going to www.frontrange.edu and clicking on eWOLF. Once you are in eWOLF, click on the Student Email icon at the top right of the screen. For a tutorial on how to set up your account, go to step 6 at <http://www.frontrange.edu/prospective-students/getting-started/>.

Student Employment Services

Employability Assistance

Employability assistance is available at the Boulder County, Larimer, and Westminster Campuses for students, alumni, and community members seeking jobs and career guidance. Westminster Campus also serves Brighton Center students. Resources include:

- Front Range Connect – an online job posting system
- Job search skills, resources, and seminars
- Statewide job openings
- Labor market data
- Sample resumes and critiquing
- Career information software
- On-campus student hourly work opportunities

Internship Education

Internship Education offers students the opportunity to earn college credit and gain practical work experience under the supervision of an experienced employer and college faculty member. Many program areas require internships for program completion. In programs that do not require an internship, it may be an approved substitute or elective. Contact program faculty for more information.

To participate in an internship, students must have:

- Completed a minimum of 15 semester credit hours in their program of study.
- Maintained a cumulative GPA of 2.0.
- Completed an internship application with a faculty recommendation.
- Obtained an internship job placement prior to course enrollment.

Students are encouraged to apply at least one semester before the semester of internship. Students should consult an advisor regarding the transferability of internship credit.

Student Identification Number

A state law initiated in 2003 requires that each Colorado postsecondary institution assign to each student a unique ID number that shall not be a student's Social Security Number. This number is the Student ID (SID). However, students will still need their Social Security Number for Financial Aid, the College Opportunity Fund stipend, and other official documents.

Student Life

A variety of cultural, leadership, and social opportunities are available to FRCC students. Student activities fees fund a number of these opportunities.

Student Governance

The Campus Student Government Association is the students' official voice to FRCC and the State Board (SBCCOE). The Student Government Associations/student advisory councils provide processes for student communication and participation with other college leaders in planning and governance.

Recognized Student Clubs and Organizations

A variety of student clubs and organizations are available. For

details, visit www.frontrange.edu/Current-Students/Student-Life/

check with your local VA office or go to www.gibill.va.gov.

Publications

The *Boulder County Sun* (journalism class project) and *The Front Page* are the student newspapers at the Boulder County and Westminster Campuses. *The Rangeview* is the student news publication at the Larimer Campus. These publications provide students with information on college issues and events. *The Student Handbook* includes tips for student success and important information about college resources. Grievance and Disciplinary Procedure brochures provide policy and procedures for students.

Teacher License Renewal

Selected and approved community college courses may fulfill teacher license renewal requirements. For further information, contact the state Teacher License Renewal Office, 303-866-6628.

Testing Center Services

The Testing Centers provide a comprehensive array of testing services. These services may include the administration of the following tests: CLEP, ACT, GED, LSAT, MPRE, NBCC, Accuplacer, and CAAP. In addition, the centers proctor exams from other institutions.

FRCC-Larimer is an Authorized LaserGrade Testing Center. Contact the Larimer Testing Center for more information.

FRCC-Westminster is an Authorized Colorado General Educational Development (GED) Testing Center. Contact the Westminster Testing Center for more information.

FRCC-Boulder County is an Authorized Colorado General Educational Development (GED) Testing Center. Contact the Boulder County Testing Center for more information.

Veterans' Eligibility

A veteran or dependent of a veteran receiving VA benefits MUST contact a member of the FRCC Veteran Services staff every semester before VA benefit certification will occur. Students using VA benefits must adhere to VA guidelines in order for benefits to be certified. This includes immediately notifying FRCC Veteran Services staff of any class schedule changes that occur after certification for a particular semester. Non-credit courses, audited courses, online developmental courses, and courses not applicable to a declared program of study cannot be approved for veteran benefits.

Students using VA benefits must maintain satisfactory progress while attending FRCC. Please refer to the FRCC Academic Progress Policy. Academic progress is reported to the VA Educational Benefits office every semester, and failure to successfully complete a course may result in repayment of VA benefits. An incomplete grade does not affect veteran benefits unless the incomplete is changed to a grade that lowers the student's cumulative GPA. The Academic Progress Policy may then apply.

Use of VA benefits requires time for processing. Students are encouraged to contact FRCC Veteran Services staff with questions and certification requests early in the registration process every semester. Use of VA benefits requires prior training and transcripts from previous colleges to be officially evaluated within two semesters.

For more information on VA Educational benefits, please

Instructional Information

Instructional Philosophy Statement

General education, transfer education, and career/technical education programs are fundamental to the mission and purposes of Front Range Community College, and are the focus of college planning, resource allocation, and accountability. They form the foundation for the many and varied activities FRCC provides as a learning institution.

General Education

General Education is intended to impart common knowledge, intellectual concepts, and attitudes that every educated person should possess. FRCC provides students with the General Education proficiencies and value of knowledge that prepare them for employment, baccalaureate and professional programs, lifelong learning, leadership, service, and responsible citizenship. To accomplish this, General Education objectives include competency in the following areas (these expectations apply to all Associate degrees and to certificates of substantial length):

- Communication
- Critical Thinking
- Mathematical Concepts and Application
- Scientific Inquiry and Methodology
- Computer and Technological Literacy
- Historical and Social Perspectives
- Society and The Individual

Transfer Education

Transfer education is an integral part of FRCC's general educational commitment. The college ensures that the scope, content, and academic rigor of its transfer courses and programs meet or exceed the state policies, standards, and practices for transfer education, and provide students with an appropriate undergraduate experience. Transfer programs may not only prepare a student for a career but also for baccalaureate education.

Career/Technical Education

FRCC is committed to providing career and technical education as an integral part of its mission. Career instruction at the college strives to:

- Promote overall success in the workplace.
- Contribute to the development of well-educated citizens and workers.
- Provide specific skills and general knowledge to stay abreast of emerging technologies in rapidly changing environments.

Student Learning, Assessment, and Accountability

FRCC's Assessment of Student Learning is used to evaluate the effectiveness of the college in meeting its educational purposes and to provide data for improvements in programs, curricula, and teaching. Under this ongoing plan, FRCC

assesses whether students:

- Demonstrate competency in seven areas of general education.
- Master the occupational/technical skills required in specific programs.
- Acquire the academic background for successful performance at four-year colleges or universities.
- Are prepared for employment, baccalaureate and professional programs, lifelong learning, leadership, service, and responsible citizenship.
- Acquire or improve basic skills for success in college-level courses.

As part of this assessment process, students receiving associate degrees are required to complete the Collegiate Assessment of Academic Proficiency (CAAP) examination or other general education assessment during the final semester of their enrollment. Students receiving online degrees should contact the nearest FRCC Testing Center to arrange for testing. Students who have previously earned an A.A., A.S., or Bachelor's Degree (or higher) are exempt from the CAAP exam. Please contact 303-678-3722 for Boulder County, 970-204-8188 for Larimer, and 303-404-5438 for Westminster for more information or to verify your exemption.

Instructional Delivery

Classroom Instruction

Classroom instruction includes a minimum 15 hours of personal contact per credit hour. Instruction may include lectures, small group discussion, labs, fieldtrips, or other in-person delivery methods.

Hybrid Courses

FRCC Hybrid Courses are courses that combine online and on-campus instruction. Online instructional activities are substituted for a portion of the required scheduled course time. Internet access and an email address are required.

Online Learning

Many courses are also available online, giving students the flexibility to do coursework from home, office, or anywhere with a computer and Internet connection.

FRCC Online Courses

Online courses include lectures, assignments, and exams delivered through the Internet. Additional course information is obtained through textbooks. In most online courses, students communicate frequently with the instructor and other students via email and computer bulletin boards. Most assignments and tests are emailed or completed online. Some online courses require on-campus or proctored tests.

Students register for FRCC online courses just as they would any other FRCC course. Courses appear on the transcript in the same format as classroom and hybrid courses. For more information about FRCC Online courses, including how to set up your computer for online courses, go to www.frontrange.edu/online.

CCCOnline

FRCC students may also enroll in online courses offered by the

Colorado Community Colleges Online (CCCOOnline) program. CCCOOnline courses are taught by instructors across the Colorado Community College System, but will appear on your FRCC transcript if you register for them through FRCC. For details about CCCOOnline courses, please consult the CCCOOnline website at www.cccoonline.org.

Articulation Agreements

FRCC through CCCS has established agreements with local school districts, businesses and Colorado four-year colleges/universities to award college credit for approved and selected courses and programs completed both inside and outside the college.

Instructional Deans may approve, on a case-by-case basis, a Course Equivalency Agreement for credit obtained from institutions or programs not covered by such agreements.

Credit for Prior Learning

The College provides the opportunity for students to receive credit for selected experience-based learning. Credit is awarded for college-level learning that includes knowledge, skills, and competencies that students have obtained as a result of their prior learning, work, and/or life experiences. This learning may be acquired from a number of sources:

- Correspondence and extension courses
- Individual study and reading
- Community and volunteer work
- Participation in informal courses and in-service training sponsored by associations, business, industry, and government.

Credit for prior learning may be awarded by a variety of methods that include:

1. Standardized Tests
 - College Level Examination Program (CLEP)
 - American College Testing Proficiency Program (ACT-PEP/RCE/EXCELSIOR)
 - Defense Activity for Nontraditional Educational Support (DANTES)
 - Advanced Placement (AP)
 - International Baccalaureate (IB)
2. Institutional Challenge Examinations
 - Examination equivalent to the comprehensive final exam
 - Examination may be written, oral, demonstration or a combination of all three
 - Evaluated by a designated subject expert
3. Published Guides
 - American Council on Education (ACE) for military training and experiences
 - ACE (non-collegiate) for industrial and corporate training programs
 - Other published guides developed by nationally recognized organizations
4. Portfolio Assessment

- Portfolio requirements and assessment determined by college faculty for work or life experiences that meet the following criteria:
 - The learning is demonstrable
 - Include both theoretical and applied components
 - Are at the college level, and
 - Are equivalent to a specific college course or courses in the student's program of study

Note: To facilitate the awarding of credit among the state's community colleges, the Community Colleges of Colorado have established the CCCS Standardized Test Matrix for the Award of Credit. This Matrix is accessible online at www.cccs.edu/Docs/EdServices/Credit-for-Prior-Learning-Handbook.pdf. The Credit for Prior Learning form is available in Admissions & Records.

Standards for Awarding Credit for Prior Learning

1. Academic credit will only be awarded for those courses directly applicable to the student's declared certificate or degree program listed in the college's catalog.
2. Students may not earn more than 50 percent of the total required degree or certificate credit hours through prior learning methodologies. No more than 25 percent of the total degree or certificate credit hours are allowed by portfolio assessment. Credit hours awarded through prior learning methodologies do not satisfy the college's residency requirement.
3. Credit earned through prior learning methodologies may meet FRCC degree requirements. A student who is awarded credit using standardized credit for prior learning assessments may be granted a degree with designation and a gt Pathways notation on their CCCS transcript. Students should consult an FRCC academic advisor to determine which Credit for Prior Learning methodologies are applicable to degrees with designations. The receiving Colorado public institution will be obligated to honor the promise that completion of the AA/AS with designation and/or gt Pathway curriculum fulfills the lower division requirements as defined by the statewide articulation agreement. Students who wish to use credits awarded by exam to fulfill specific course requirements are responsible for consulting with the institution to which they are considering transferring to determine whether the credits they have been awarded by exam meet the standards of the receiving institution for specific course equivalents.
4. Credit for prior learning must meet or exceed the "C" grade level. Minimum cut-off scores on standardized tests are also established to meet the "C" grade level.

Policies and Procedures

To be awarded credit for prior learning, a student must be enrolled for a minimum of one credit hour at the college during the semester of the request.

No letter grade will be assigned for the awarding of credit for prior learning. The student's transcript will indicate the course number, title, and credit hours for which prior learning credit has been awarded.

Credit awarded by exam may be applied to meet Guaranteed Transfer (GT) courses but invalidates the guaranteed transfer of A.A. and A.S. degrees.

Fees

- Fees for credit for prior learning methodologies are to be paid prior to the evaluation and are non-refundable.
- Students will not pay tuition when seeking credit for prior learning via testing but will pay the following fees: (1) For standardized test, such as the CLEP, students will pay a \$25 test administration fee plus the cost of the test; (2) For tests developed by FRCC faculty or for portfolio assessment, students will pay a \$130 testing fee.
- Fees are not assessed for credit awarded by published guides, corporate/private industry training, or military training.

Transferability of Credit for Prior Learning

Students intending to transfer to another community college in the state system may have their prior learning credits transferred to that college as long as the credits are applicable to the student's certificate/degree program.

Students intending to transfer to other collegiate institutions not within the state community college system should contact that institution to determine the transferability of credit awarded by prior learning.

Honors Program at Larimer Campus

Our honors program provides a stimulating environment where highly motivated students and faculty work together to achieve rigorous academic goals. The Honors Program was created to better serve our highly motivated, intellectually talented, academically well prepared, and/or creative students. Students that take part in honors courses are challenged to develop their full potential through a variety of educational activities, by working with a select group of dedicated faculty, and by interacting with other highly motivated and gifted students.

Honors Program Completion

Meet the following program requirements to receive a designation of "Honors Program Completed" on your FRCC transcript:

- Maintain a 3.5 cumulative GPA at FRCC
- Successfully complete at least 10 credits of embedded honors courses (see below)
- Complete the two-credit Honors Seminar Course (offered spring semester; enrollment by application only)

Graduating students that complete the program will also be recognized at graduation.

Embedded Honors Courses

Embedded honors courses are regular course sections in which you can complete an additional honors project and receive an honors designation on your transcript for that course. For this option, you must successfully complete your regular coursework at an A or B level and satisfactorily complete the honors level projects to receive the designation. A variety of courses can be taken for honors credit each semester, and there is no formal application process for these courses. Faculty will introduce the honors project option in the course during the first few weeks of the semester. Embedded honors courses are offered across many disciplines, and the current list for each semester can be found at www.frontrange.edu/honors/.

Supplemental Instruction

Continuing Education

For over 20 years the Continuing Education division at Front Range Community College has been providing affordable and quality non-credit professional development and personal enrichment classes in your community. We are your resource for gaining new skills to make a career transition or discovering new interests to further your personal development. We offer a wide variety of programs and classes on campus and online. New classes start every week. Here are a few of our most popular offerings.

Technology

Introduction to Personal Computers

Microsoft Office Suite

Access, Excel, PowerPoint, Word

Adobe Creative Suite

Dreamweaver, Fireworks, Flash, InDesign, Illustrator, &

Photoshop

AutoCAD

Communication

Business Writing for Professionals

Foreign Languages

Chinese, French, Italian, Japanese, Spanish

English as a Second Language

Art

Wire Wrap Jewelry Making

Glass Blowing

Digital Photography

Painting Workshop

Certificate Programs

Equine Management & Training

For more information and a complete listing of courses available to you, please call or search the web via the following:

Westminster Campus, Boulder County Campus, and Brighton Center 303-404-5465, or Larimer Campus 970-204-8686 or <http://www.frontrange.edu/continuinged>

Corporate Solutions

Company Training Programs

The Corporate Solutions Division at FRCC provides a diversified set of high quality training solutions and services to help our customers meet their workforce development and business goals. We offer a scalable needs assessment process and customized training solutions for individual companies and industry sectors.

Following is a sample of our areas of expertise:

Process Improvement & Lean Six Sigma

Leadership, Management, & Team Development

Project Management

Manufacturing Technology

Information Technology

Health & Safety Training

English as a Second Language

Employment Training Programs

Corporate Solutions provides entry level job training

programs developed in partnership with companies in manufacturing, bioscience, energy, and information technology industries.

Training Grants

The Corporate Solutions department also administers training grants to assist companies with funding workforce training.

For more information:

Larimer County

Erin Smith, Director

970-204-8247

erin.smith@frontrange.edu

Adams & Boulder Counties

Claudia Ossola

303-404-5461

claudia.ossola@frontrange.edu

For more information

Contact Continuing Education at the following locations:

Larimer County Campus off-campus Prospect Site, 970-204-8686

Boulder County Campus, Westminster Campus & Brighton Center, 303-404-5465

ROTC Air Force

(Westminster & Larimer)

Air Force Reserve Officer Training Corps offers programs leading to a commission in the U.S. Air Force upon receipt of at least a bachelor's degree. FRCC students who wish to enroll for the University of Colorado or Colorado State University AFROTC classes may register through FRCC. These classes are offered at the University of Colorado at Boulder and at Colorado State University. Contact the Department of Aerospace Studies, University of Colorado at Boulder at 303-492-8351 or Colorado State University at 970-491-7968.

ROTC Army

(Westminster)

FRCC and the University of Colorado at Boulder offers Army Reserve Officer Training Corps programs that lead to a commission in the active Army, Army Reserve, and National Guard. Two years of the four-year program may be completed while attending FRCC. Military veterans may already qualify for the courses for juniors and seniors. Contact the Department of Military Science at the University of Colorado at Boulder at 303-492-3549.

Partnerships with K-12 Schools

FRCC is actively involved in partnerships with local K-12 schools that include:

College Now: Career Pathways (High School Career and Technical Programs)

The Larimer Campus offers career and technical programs for over 400 students from high schools in the Poudre (Fort Collins) and Thompson (Loveland) school districts. These on-campus programs, which provide a minimum of 325 hours of education and training, include: Animal Technology & Research, Architecture & Landscape Design, Automotive Technology & Service, Culinary Arts, Ironworking/Industrial Welding, Medical Careers Exploration, Law Enforcement

Exploration, Welding & CAD: Design It - Build It, and Wildlife/Forestry/Natural Resources. Interested students should consult their high school counselor.

College Now: High School Select (Concurrent Enrollment Options)

Through this program high school students may enroll in courses through the college and may either have tuition costs paid up front by their school district or be reimbursed for tuition upon satisfactory completion of the courses if approved by the high school. Dual high school and college credit may be awarded for Concurrent Enrollment courses.

School-based and Campus-based Credit and Non-credit Courses

The college collaborates with local schools to offer a wide variety of credit and non-credit courses for K-12 students and parents. The courses are offered both at the college and in local school facilities.

Small Business Development Center

Dedicated to helping small businesses start, grow and prosper. The Small Business Development Center provides no-cost, confidential one-on-one counseling and technical assistance in business plan preparation, business research, marketing, feasibility analysis, finance management, and other current small business topics. Please visit our website to view a complete and updated list of our small business classes.

For more information:

Contact one of FRCC's Small Business Development Centers at one of the following locations:

- Larimer SBDC-Larimer Campus, 125 Howes Street, Suite 150, Fort Collins, 80521; 970-498-9295; www.larimersbdc.org/
- North Metro Denver SBDC-Westminster Campus, 3645 W. 112th Avenue, Campus Box 6, Westminster, 80031; 303-460-1032; www.northmetrosbdc.com

International Travel-Study Abroad Program

Effective 2012-2013 academic year, FRCC will no longer run a college-sponsored Study Abroad program.

FRCC students wishing to participate in Study Abroad courses and programs offered by outside providers and/or other colleges and universities should be aware that no prior FRCC academic credit approvals will be done before travel.

Students desiring to participate in a Study Abroad experience and transfer academic credit to FRCC, should consider carefully beforehand whether their FRCC academic program accommodates such transfer credit, which will most often be in the form of electives rather than required courses.

Academic Matters

Academic Appeals Procedures

Also see Legal Notices.

Student has option to appeal. For additional information, please refer to FRCC and the Student Appeals Process.

Academic Renewal Policy

The purpose of academic renewal is to allow a student the opportunity to remove a maximum of 30 semester credit hours of poor academic performance from the GPA calculation.

Academic renewal applies only to courses taken at FRCC and may be awarded only one time. The original grades and credit hours remain on the permanent academic transcript, and credit hours are deducted from the student's remaining COF stipend eligible hours. A notation indicates that academic renewal has been awarded, and the GPA has been adjusted. Once academic renewal is granted, it is irreversible. Credit excluded from the GPA calculation cannot be used to satisfy the requirements for completion of an FRCC certificate or degree.

Students applying for academic renewal must complete the Academic Renewal Application Form available from the Office of Admissions and Records.

The following conditions must be met to apply for academic renewal:

1. The student must wait at least two calendar years after the coursework was completed to apply for academic renewal. The student cannot be enrolled in classes at FRCC during those two years.
2. The student must complete 6 semester credit hours with grades of "C" or better and obtain a GPA of 2.0 or higher during the term in which the application is submitted.
3. The academic renewal form must include an academic advisor's signature.
4. The transcript of a student awarded academic renewal will reflect the entire academic record, but the courses covered under academic renewal will be excluded from GPA calculation, and will be so identified.
5. Only grades of D and F are eligible for academic renewal and exclusion from GPA calculation.

A student concerned about a poor academic record is encouraged to meet with an advisor to discuss FRCC's other academic progress options and strategies for academic success.

The Academic Renewal Policy is only applicable to classes taken at Front Range Community College.

Other institutions receiving an FRCC transcript for transfer are not bound by this college policy and may choose to calculate the student's transfer GPA to include all grades, even those excluded by FRCC under this policy.

Students applying for academic renewal are responsible for investigating the impact of renewal on transfer admission, financial aid, remaining COF stipend eligible hours, Veterans Administration benefits, and other agencies' and organizations' policies. For clarification of the scope and definition of this policy, contact the Office of Admissions and

Records or an advisor.

Attendance

Attendance at all class sessions is critical for academic success. Students are expected to comply with the attendance policy established by instructors and departments. Class attendance shall be maintained for all credit and non-credit classes conducted by the college consistent with federal and state regulations per FRCC Organizational Guidelines IN 2.4

Credit Hours

In general, students attend 50 minutes of lecture or class each week, for 15 weeks, for each credit hour earned. Class time requirements differ for certain lab, lecture/lab, and hybrid courses. Typically, students spend a minimum of two hours on class assignments for every one hour of class.

Academic Progress Policy

Front Range Community College strives to enroll students in courses appropriate to their level of academic preparedness and goals as determined by mandatory assessment and academic advising. All FRCC students are expected to achieve satisfactory progress as required by the Colorado Community College System. Application of this policy is intended to be informational and not punitive. Through the Academic Alert Process students will be informed when they are not making satisfactory academic progress.

Standards and Practices

1. The Academic Progress Procedure applies to all students who have attempted 13 or more semester hours of credit while attending a college in the Colorado Community College System.
2. During the student's first 12 credit hours of enrollment of college level coursework, FRCC will monitor satisfactory progress through the Academic Alert process.
3. A student is considered in "Good Standing" when the student's cumulative GPA is at least a 2.0 or greater for all courses completed at FRCC.
4. A student is placed on Probation (initial) when the student's cumulative GPA is less than 2.0 for all courses completed at FRCC.
5. A student is considered on Probation (continuing) when the student's cumulative GPA remains less than 2.0 for all courses completed at FRCC and the student's last term GPA is 2.0 or greater.
6. A student is placed on Suspension (initial) when his/her cumulative GPA is less than 2.0 for all classes completed at the College and the last term GPA is also below 2.0. A student placed on Suspension (initial) is not permitted to register for the next term after the term of suspension unless a suspension appeal is approved. A student may appeal for unusual or mitigating circumstances by meeting with an academic advisor and submitting an academic plan to the Dean of Student Services for approval. A student who is approved to register for classes will remain on probation (continuing) and must complete the semester with a semester GPA of 2.0 to continue enrollment.

7. A student is placed on Suspension (second) when his/her cumulative GPA is less than 2.0 for all classes completed at the College and the last term GPA is also below 2.0 for the second time. A student placed on Suspension (second) is not permitted to register for the next two terms after the term of suspension unless a suspension appeal is approved. A student may appeal for unusual or mitigating circumstances by meeting with an academic advisor and submitting an academic plan to the Dean of Student Services for approval. A student who is approved to register for classes will remain on probation (continuing) and must complete the semester with a semester GPA of 2.0 to continue enrollment.
8. A student is placed on Suspension (third) when his/her cumulative GPA is less than 2.0 for all classes completed at the College and the last term GPA is also below 2.0 for the third time. A student placed on Suspension (third) is not permitted to register for the next two years after the term of suspension unless a suspension appeal is approved. A student may appeal for unusual or mitigating circumstances by meeting with an academic advisor and submitting an academic plan to the Dean of Student Services for approval. A student who is approved to register for classes will remain on probation (continuing) and must complete the semester with a semester GPA of 2.0 to continue enrollment.
9. Summer semester will count as a term of non-enrollment when a student sits out due to suspension.

Course Load

The typical course load for full-time students is at least 12 credit hours. For tuition and certification purposes, students who register for fewer than 12 credit hours per term are considered part-time for all three terms during the academic year.

Students must have the appropriate Dean or designee's approval to enroll for more than 18 credits in any semester. Students should see an academic advisor to seek approval.

Students receiving financial aid or Veterans Administration benefits should contact the respective office for clarification.

Grades

Achievement in a course is measured by meeting specific course objectives. At the beginning of a course, the instructor explains objectives and the criteria by which grades are assigned. For the following grade descriptions, "achievement" may be defined as successfully reaching a level of knowledge, understanding or competency. A satisfactory, or "S" grade, is a "C" or better.

Grades are issued at the end of each semester and are not mailed. Students may access grades by logging into their account in eWOLF through www.frontrange.edu.

Grading Symbols:

A	Excellent or Superior
B	Good
C	Average
D	Deficient
F	Failure
I	Incomplete

S	Satisfactory
U	Unsatisfactory
S/A	Satisfactory (A-level) work in a designated developmental course
S/B	Satisfactory (B-level) work in a designated developmental course
S/C	Satisfactory (C-level) work in a designated developmental course
U/D	Unsatisfactory (D-level) work in a designated developmental course
U/F	Unsatisfactory (F-level) work in a designated developmental course
W	Withdrawal
AW	Administrative Withdrawal
AU	Audit
Other Grading Symbols:	
R	Repeated Course
SP	Satisfactory Progress
Z	Grade not yet reported

Grade Definitions:

AU - Audit:

By auditing a course, a student may participate in course activities, but does not receive a formal transcript grade. Students must indicate intent to audit a course at registration or by the deadline listed in the course schedule. Audited courses are not eligible for the College Opportunity Fund stipend. Students will be responsible for the full in-state or out-of-state tuition. Audited courses do not meet the credit hour requirements for financial aid or veteran benefits and may not be applied to certificates or degrees. Course credits for which an AU is earned will not count in Attempted Hours and Earned Hours. No Quality Points will be assigned, and there will be no impact on either the Term or Cumulative GPA.

I - Incomplete Grade:

The "Incomplete" grade is a temporary grade and is designed for students who, because of documented illness or circumstances beyond their control, are unable to complete their coursework within the semester, but have completed at least 75% of all course assignments and tests in a satisfactory manner with a grade of "C" or better.

If circumstances beyond the student's control prevent the student from completing a test or assignment at the end of the term, it is the student's responsibility to initiate the request for an "Incomplete" grade from the instructor. The instructor determines whether the student has a reasonable chance of satisfactorily completing the remaining course activities in a timely manner.

The instructor will complete and sign an "Incomplete Grade Contract" and will submit it to Admissions and Records with final grades for the semester. The Admissions and Records Office will send a copy of the "Incomplete Grade Contract" to the student. The incomplete grade will be assigned on the class roster at the time of the submission of grades.

Students are encouraged to inform instructors, as soon as possible, if they are having difficulties with any part of the course. In the event that a student and instructor cannot reach resolution concerning an Incomplete, then the student should

contact the Dean of Instruction at their campus.

Military personnel and emergency management officials who are required to go TDY in the middle of a semester should contact their instructor for special consideration. Documentation of official TDY assignment is required. Other options are available depending on the time frame. Please see your Campus Veteran Services Counselor to determine which option is best for you.

Incomplete grades which are not converted to a letter grade by the instructor after one subsequent semester (not including summer semester) will revert to the default grade specified in the Incomplete Grade Contract.

S - Satisfactory:

This grade is a "C" or better. It may not be applied to any course in the Colorado Guaranteed Transfer Program for General Education. No more than six semester hours may be applied to the Associate of Arts or Associate of Science Degree.

U - Unsatisfactory:

This grade is a "D" or less. It may not be applied to any degree requirements.

S/A, S/B, S/C:

These are satisfactory grades awarded only for developmental courses. The A, B, and C indicate the level of satisfactory performance. These grades are not included in the GPA calculation, but may impact financial aid eligibility. The course will count in attempted credits, but will not generate earned credits.

U/D, U/F:

These are unsatisfactory grades awarded only for developmental courses. The D and F indicate the level of unsatisfactory performance. These grades are not included in the GPA calculation, but may impact financial aid eligibility. The course will count in attempted credits, but will not generate earned credits.

W-Withdrawal:

The "W" or withdrawal grade is assigned when a student officially withdraws from a course. A grade of withdrawal may only be processed during the first 80% of the course. No academic credit is awarded. The course will count in attempted credits.

AW - Administrative Withdrawal:

The "AW" or administrative withdrawal grade is assigned by the college when a student has been administratively withdrawn. No academic credit is awarded. The course will count in attempted credits.

SP - Satisfactory Progress:

This temporary grade symbol is assigned to certain approved courses that extend beyond the end of a normal semester. No academic credit is awarded until the course is completed.

Last Date of Attendance:

Faculty is required to provide the last date of attendance for each student who is awarded an F or U/F grade. In addition, if faculty assign a W, then the last date of attendance is also required.

Z - No Grade Submitted:

This temporary grade symbol is assigned by the Registrar when a grade is not received from the course instructor. This grade is replaced and credit awarded upon assignment of a grade by the instructor.

Repeat field Indicators - I or E:

Assigned for repeated courses on the student's transcript, an "I" will indicate include in earned hours and GPA calculation or an "E" will indicate exclude from earned hours and GPA calculation.

Grade Point Average:

Grade points measure the level of achievement for the credit hours completed. To calculate the GPA, multiply the number of grade points by the number of credit hours received for each course. Total the number of credits and the number of grade points separately. Divide the total grade points by the total credits.

- A = 4 grade points
- B = 3 grade points
- C = 2 grade points
- D = 1 grade point
- F = 0 grade points

For example:

Course	Credits	Grade	Grade Points	GPA
MAT 121 College Algebra	4 cr.	C (2 pts)	8	2.0
HWE 110 Fitness Condition.	2 cr.	A (4 pts)	8	4.0
ENG 121 English Comp I	3 cr.	B (3 pts)	9	3.0
BIO 105 Science of Biology	4 cr.	B (3 pts)	12	3.0
TOTALS	13	Credits × Grade Point Total ÷ Total Credits = GPA	37	2.845

Note: Credits transferred to FRCC from other institutions and developmental-level courses are not calculated in the GPA on the FRCC transcript.

Academic Integrity

FRCC treats all violations of academic integrity seriously. Faculty, departments, and deans act in partnership to develop appropriate responses to incidents of academic dishonesty. The purpose of this partnership is to serve the best interests of students enrolled at the college.

Violations of academic integrity include but are not limited to: plagiarism, misuse of academic materials, unauthorized collaboration, falsification of information, helping someone

else violate reasonable standards for academic behavior, and cheating. Cheating includes intentionally using or attempting to use unauthorized materials, information, or study aids in any forms of work submitted for credit or hours; multiple submissions of the same assignment to different classes without prior authorization; altering or interfering with grading; lying to improve a grade; altering graded work; unauthorized removal of tests from classroom or office; forging signatures on academic documents; intentional and unauthorized falsification of any information or citation in academic work; and intentionally or knowingly helping or attempting to help another to violate any part of the code of academic integrity.

Plagiarism is the adoption or reproduction of ideas, words, or statements of another person as one's own without proper citation or acknowledgment. When a student submits work that they claim to be their original work, but actually is not, the student has committed plagiarism. Plagiarism includes the following: copying of one person's work by another and claiming it as his or her own; false presentation of one's self as the author or creator of a work; falsely taking credit for another person's unique method of treatment or expression; falsely representing one's self as the source of ideas or expression; or the presentation of someone else's language, ideas, or works without giving that person due credit.

The misuse of academic materials includes, but is not limited to, the following: stealing or destroying library or reference materials or computer programs; stealing or destroying another student's notes or materials, or having such materials in one's possession without the owner's permission; receiving assistance in locating or using sources of information in an assignment when such assistance has been forbidden by the instructor; illegitimate possession, distribution, or use of examinations or answer keys to examinations; unauthorized alteration, forgery, or falsification of academic records; and unauthorized sale or purchase of examinations, answer keys, papers, or assignments.

If an instructor or faculty member suspects or has accused a student of academic dishonesty (according to but not limited by the definitions above), he or she will inform the student and submit a report and any appropriate documentation to the Dean of Student Services. Individual members of the faculty will determine the appropriate academic consequence in the class, which may extend from a warning up to and including failure of the course. Individual departments may establish by agreement rules requiring specific academic sanctions. As academic misconduct is also a violation of the student conduct code, the Dean of Student Services may determine appropriate institutional consequences up to and including dismissal from the college, following the processes and sanctions outlined in the college's disciplinary procedures. Students have a right to appeal final grades and disciplinary sanctions based on the college's appeals policies. For more information visit www.frontrange.edu/conduct

Term Academic Honors

FRCC provides an opportunity for students to be recognized with Academic Honors, on a term-by-term basis. The College has three recognized Honors: (1) Dean's List, (2) Vice President's List, and (3) President's List. Students who qualify will receive a notation for that term on their official transcripts. Students must complete a minimum of 12 college-level credits during the term to be eligible for this recognition.

Term GPAs required to qualify for these Term Academic Honors are as follows:

Honor	Required Term GPA
Dean's List	3.50 – 3.749
Vice President's List	3.75 – 3.999
President's List	4.00

Grades Required for Program Certificates and Degrees

Students must earn a grade of C or better for all courses applied toward award of any Associate of Arts, Associate of Science, Associate of General Studies, or Associate of Applied Science degree. Students must earn a grade of C or better for all courses applied toward award of any certificate. Students matriculated prior to 2009-2010 and continuously enrolled may still be able to apply a grade of D toward their program if the program allowed it per the catalog for the year in which they first matriculated. Some programs or courses also require that students achieve specific grades or GPAs to continue in the program. See the Programs section of this catalog for requirements.

Application for Graduation

Students shall apply for graduation to receive an associate degree or certificate. The graduation application is available through the Office of Admissions and Records and online at www.frontrange.edu/graduation and can be found on eWOLF under Student tab/General Information. In order to receive priority processing, the graduation application should be submitted before the published priority deadline during the term in which the student plans to complete the graduation requirements. If you need college credits from another institution, Credit for Prior Learning (CPL), or AP credit applied in order to meet graduation requirements, those must be processed prior to submitting a graduation application. Students completing an associate degree program are required to complete the CAAP (Collegiate Assessment of Academic Proficiency) to receive a diploma. You can find more information about CAAP testing online at <http://www.frontrange.edu/Current-Students/Learning-Resources-and-Support-Programs/Testing/CAAP-Exam.aspx>.

Graduation Honors

Graduation honors recognize outstanding academic achievement throughout a student's academic career. The honors are awarded to students who complete the requirements for an associate degree, complete at least 30 credit hours at FRCC, and earn a 3.5 or better cumulative GPA at FRCC. Only completed college-level courses will be included in the GPA calculation. The three levels of recognition are defined as follows and will be posted on the student's transcript:

Honor	Required Cumulative GPA
cum laude ("with honor")	3.50 - 3.749
magna cum laude ("with great honor")	3.75 - 3.99
summa cum laude ("with highest honor")	4.00

Commencement

A commencement ceremony is held at the end of each spring semester. In addition to spring applicants, students who have received a degree and/or certificate in the previous summer or fall semester of the same academic year are invited to participate in the commencement ceremony. Honors for Spring graduates are based on GPAs from Fall semester.

Transcript Requests

Please note the following information when requesting a FRCC transcript:

- Official transcripts must be requested in writing, either by mail, or by completing an online request via the student account in eWOLF or at www.frontrange.edu/transcripts. You may also complete the Transcript Request form at the Office of Admissions and Records.
- Official transcripts are provided at no cost. However, same day transcripts and overnight requests are \$10.00 each in addition to the overnight mailing cost.
- Transcripts are not released if a student has financial obligations to the college or another Colorado Community College System college.
- The college does not certify transcripts that have been sent to FRCC from other institutions.
- Transcripts are released in accordance with the Family Educational Rights and Privacy Act. (See Family Educational Rights and Privacy Act.)

Written requests should include the following information:

1. Student's full name
2. Student's ID Number
3. Indication of whether the transcript is to be sent immediately or should be held for current semester grades
4. Address where the transcript is to be sent
5. Student's signature

Change of Contact Information

Students must present a valid picture ID when notifying the Office of Admissions and Records of any change of address, telephone number, or email address. Students may also update their student account information by logging in to eWOLF at www.frontrange.edu.

Name Change Policy

A student is required to submit legal documentation for any name change. This documentation may include: a marriage certificate, a divorce decree, valid Colorado Driver's License, or a court order. In addition, a student must also submit a Demographic Change Form with the required documentation. All documentation for a name change must be submitted to the office of Admissions and Records.

Dropping and Withdrawing from Courses

Dropping Courses:

- A course may be dropped during the first 15 percent of the course.
- Deadlines for dropping may vary from course to course. Students should consult the instructor or class schedule for the appropriate deadline.

- Dropping a course deletes the course from the student's record.
- Failure to officially drop a course by the applicable deadline results in financial obligation for course tuition and fees and may result in the assignment of a failing grade and incurring a financial obligation.

Withdrawal:

- A withdrawal after the first 15 percent but before 80 percent of the course is completed does not delete the course from the academic record.
- A withdrawal may be submitted by the applicable deadline before 80 percent of the course has been completed.

Deadlines for withdrawing may vary from course to course. Students should consult the instructor or class schedule for the appropriate deadline.

- A withdrawal (W) is noted on the transcript, but does not affect the GPA.
- A withdrawal deducts credit hours from a student's remaining COF stipend eligible hours.
- Non-attendance does not activate the withdrawal process and may result in failing grades and/or financial obligation.
- To withdraw, a student may login to his/her student eWOLF account at www.frontrange.edu or complete, sign, and submit a withdrawal form to the Office of Admissions and Records.

Student has option to appeal. For additional information, please refer to FRCC and the Student Appeals Process.

Repeated Courses

All FRCC courses may be repeated at FRCC. Courses transferred from other institutions do not apply to this policy. Each registration for the course and each grade received will be listed on the transcript. On the transcript a notation will follow the course indicating that the course was repeated and designating whether the course will be included in the GPA. The highest grade will be used in the GPA calculation. All courses, regardless of the grade earned, are eligible for repeat as long as all other enrollment requirements have been met. All credit hours earned for initial and repeated courses will be deducted from the student's remaining COF stipend eligible hours. Repeating a course may impact the student's financial aid eligibility.

Repeated courses may be applied only one time to a certificate or degree, except for variable credit courses that may have up to 6 credits of the same course applied.

If both the initial and the repeated course were taken in fall 2006 or after, the system automatically removes the lower grade from the GPA. If either the initial or the repeated course (or both) were taken prior to fall 2006, then the student must complete a Repeated Course Request form and submit it to the Admissions and Records Office.

For Developmental Courses Only:

The grading system for developmental courses changed beginning fall 2006, and developmental grades are no longer included in the cumulative GPA calculation. However, if either the initial course or the repeated course (or both) were taken prior to fall 2006, then the student must complete a repeat course petition form for the developmental coursework and

submit it to the Admissions and Records Office.

Transferring Credit to FRCC

FRCC does not require transcripts from previous high schools or colleges for admission. However, if a student plans to complete a degree or certificate with applicable transfer credit, an official transcript must be sent directly to the college from the institution where the credits were earned. As part of this process, students should complete a Transfer Credit Evaluation Request Form, available from the Admissions and Records Office or online at www.frontrange.edu/transfer.

The transfer of academic credit to the college is governed by the following policies or procedures:

- A grade of "C" or better is required for transfer. Transfer credit will not be awarded for courses with "D", "F", or "U" grades.
- The college may examine credits to ensure that the content is not outdated or obsolete.
- Generally, credits accepted in transfer will be less than 10 years old, though all credit which is not outdated or obsolete, and is applicable to the student's degree program, may be accepted. The final determination of acceptance of credit based on content and age of the credit is made by the appropriate college instructional department and instructional dean. Please consult individual instructional program requirements in this catalog for any course age limitations specific to that program.
- Transfer credit is accepted from postsecondary institutions that are accredited by one of the approved six (6) regional accrediting associations or by specified articulation agreements.
- Grades for courses transferred to FRCC are not calculated in the FRCC GPA.

FRCC and the Student Appeals Process

Under the authority of the Colorado Department of Higher Education, collegiate institutions are to have specified appeal processes to resolve student issues or problems.

The most common student appeals pertain to general education courses, transfer, tuition classification, financial aid, faculty problems, or grades.

FRCC has a number of appeal processes within the college to not only comply with required state procedures, but also to provide a student an opportunity to a fair and expeditious means to resolve issues that affect a student's enrollment.

While the college continually strives to ensure that a student's experience at the institution is positive, from time to time issues will arise from decisions affecting a student.

Depending on the nature of the dispute, there are a variety of levels at which a student may request a review of a decision. These levels of review include appeal processes that are both internal and external to the college.

Academic Appeals Procedures

Also see Legal Notices as well as FRCC and the Student Appeals Process.

1. Statement of Purpose

To secure equitable solutions to problems of an academic nature that affect a student's academic progress.

2. Basis for Appeals

Academic appeals may be initiated in the following areas:

- Denial of program completion/graduation
- Academic dismissal from a program
- Final grades

Note: Appeals/grievances of a non-academic nature are handled by the Dean of Student Services in accordance with the current student grievance procedure.

3. Procedure

- a. **Informal Appeal** — This process must be used first. The student and instructor should attempt to resolve the problem on an informal basis whenever possible. If this fails, the student may meet with the instructor and the department chair to resolve the issue. If the issue is not resolved in the informal process, the student may initiate the formal appeal process.
- b. **Formal Appeal** — A formal appeal must be initiated according to the procedures and timelines listed below:
 - Final grade appeals must be initiated by the student within thirty calendar days of the awarding of the grade.
 - Denial of program completion/graduation or academic dismissal appeals from any program must be initiated within ten calendar days following the notification to the student.
 - The student may initiate a formal appeal by submitting a written statement to the Dean of Instruction describing the exact nature of the complaint and the remedy the student is seeking. Appeals may be submitted outside the timelines indicated above only if documented extenuating circumstances exist. These circumstances must be fully explained in the written appeal request and accompanied by the supportive documentation. Acceptance of late appeals will be at the discretion of the instructional dean.
 - The Dean of Instruction will convene an administrative hearing.
 - Participants in the administrative hearing will include the student, the instructor, and the Dean of Instruction. If the instructor is unavailable, the department chair will represent the instructor.
 - The student and the instructor may submit written statements by other individuals having information regarding the complaint.
 - After the hearing, the Dean of Instruction will review all oral and written statements and reach a decision. Both student and instructor will receive written notification of the decision within ten calendar days after the hearing.

Petition for Review: Subsequent to the appeals decision by the Dean of Instruction, the student may submit a written request to the campus Vice President for review of the proceedings. The Petition for Review must be submitted within ten calendar days of the written notification of the initial decision. Failure to meet the ten-day deadline for a written request for review will result in the initial decision made by the Dean of Instruction being final and not subject to additional review. All decisions of the Vice President are final.

Appeal of Drop or Withdrawal Deadlines:

FRCC has published deadlines in the class schedule for dropping and withdrawing from courses that allow students equal opportunity to drop or withdraw, regardless of the reason. An appeal process is available to students who experience an extenuating circumstance beyond their control that affects their ability to participate in coursework for a prolonged period of time or ability to drop/withdraw by the deadline. Students must complete an appeal application packet, including supporting documentation, for their appeal to be considered.

- A student must document the extenuating circumstance. (Please note that a change in employment or work hours does not constitute an extenuating circumstance.) Extenuating circumstances include unexpected illness, accidents, unexpected requirements for military personnel and emergency management officials during an academic term.
- Appeals must be submitted within 12 months of the end of the semester for which the student is appealing.
- Repeated appeals for the same reason will not be considered.

Appeal Procedures for Residency and Tuition Classification

Any student who is denied in-state tuition classification after petitioning for in-state tuition may appeal the decision of the Tuition Classification Officer. The student must appeal in writing and provide any additional supporting documentation available to substantiate the claim to in-state tuition classification within 30 days of the denial.

Transfer Appeals Process

Consistent with the requirements of the Colorado Department of Higher Education, a student may appeal a decision regarding the transferability of credits earned.

Procedures for Transfer Credit Appeal at the College Level:**Appeal and Secondary Decision**

1. The appeal must be submitted to the Director (or Coordinator) of Admissions and Records in writing within 15 calendar days of the date of the evaluation.
2. The decisions regarding course transferability and/or placement made in the initial transcript evaluation will be binding if the student fails to file a written appeal within 15 calendar days.
3. The appointed college official will have 30 calendar days to review the student's appeal and inform the student in writing of the decision on the appeal including the rationale for that decision. In addition, the student shall be informed in writing of the process for appealing this decision.
4. The student is informed by the appointed official of the remaining appeal options. Failure to inform the student will result in the decision being considered null and void. The student's request will prevail and cannot be overturned by the college.

Appeal beyond Secondary Decision

1. The secondary decision may be appealed by filing a written appeal with the Academic Vice President of the college within 15 calendar days of the postmark date of the letter notifying the student of the appointed official's decision. If the student fails to file an appeal within this time period, the original or initial decision shall be binding.
2. The college will hear and reach a decision on the appeal within 15 calendar days after the appeal is filed.
3. The student will be notified in writing by the college of its decision regarding the transfer appeal and the rationale for the decision. In addition, the student may appeal the decision to CCCS.

Appeal to Colorado Community College System (CCCS)

1. The student may appeal the decision of the college by filing a written appeal with the Academic Vice President of CCCS within five calendar days of the postmark date of the letter notifying the student of the college's decision. If the student fails to file an appeal within this time period, the college's decision will be binding.
2. CCCS staff shall review and reach a decision on the appeal within five calendar days after the appeal is filed.
3. The student will be notified in writing by CCCS of its decision regarding the transfer appeal and the rationale for the decision. In addition, the student is informed by CCCS that the student may appeal the decision by filing a written appeal with the Colorado Department of Higher Education within five calendar days of the postmark date of the letter notifying the student of the decision by CCCS.

Appeal to Colorado Department of Higher Education (CDHE)

1. The student initiates an appeal by informing CDHE in writing of the situation and the reason for the appeal.
2. The Executive Director of CDHE will immediately notify the chief executive officer of the institution of the appeal and request the institution to submit documentation for the decision being appealed by the student. The institution will submit documentation within 15 calendar days of notification.
3. The chair of the Transfer Advisory Council (TAC) will schedule the appeal to be heard at the council or convene a special meeting if the appeal cannot be heard within 30 calendar days. Both the student and the institution will be notified of the TAC's meeting time and location. The student and/or institution may be asked to make an oral presentation to the council. The resolution of a dispute will be completed within 30 calendar days from the time an appeal is made to CDHE. In no circumstance will the appeal process extend beyond 120 days from the day the student was notified of the transcript evaluation unless it benefits the student.
4. Should an appeal be filed involving a campus or governing board represented on the TAC, the TAC member will not participate in hearing the appeal, nor may the member be present during the discussion. Transfer disputes will be heard by only those members who are not directly affiliated with the institution or governing board involved.
5. TAC's consideration of the appeal will include, but is not limited to, the institution's compliance with the Statewide Transfer Policy, the governing board policy statement, the

institutional Articulation/Transfer Agreements, the transfer appeal process, and the student's compliance with the institutional Articulation/Transfer Agreements. In the absence of a written Articulation/Transfer Agreement for the program in question, TAC will conduct a transcript evaluation and determine the transferability of individual courses.

6. The chair will inform CDHE's Executive Director of TAC's recommendation.
7. CDHE's Executive Director will inform the chief executive officer and the chief academic officer and the student of the final determination and advise the institution's chief executive officer to implement the recommendation within five calendar days.
8. The institution's chief academic officer will inform the TAC chair within 10 calendar days of the action taken in regard to the final determination.
9. TAC's recommendation and the action taken by the institution will be reported to CDHE as an information agenda item.

Appeal of Higher Education Policy Issues

In addition to hearing appeals regarding the state guaranteed general education program, a student may appeal directly to CDHE when the issue involves one of the following areas:

- Violation of the Student Bill of Rights (see Student Bill of Rights)
- Noncompliance with CDHE policies pertaining to transfer, student fees, etc.
- Failure of an institution to follow its established policies and procedures
- Failure of an institution to respond to a student's written appeal within 30 days

However, CDHE's appeal process is not designed to resolve disputes between an individual and an institution that involves grades, billing, or terms of employment or that involve athletic eligibility. In addition, institutional tuition classification decisions are not subject to appeal to CDHE after the institutional appeal process has been completed.

Procedures:

To initiate this process with CDHE, a student may appeal by submitting a written request (letter or email) describing the issue(s) and steps the student has taken to resolve the issue. Eligible appeals, as indicated above, will follow the full appeal process. Appeals that involve issues that are reserved for the institution will be referred to the appropriate college authority.

Full Appeal Process

CDHE will assist the student by identifying the institutional staff person or department that is in the best position to resolve the issues directly. If the institution does not act on the appeal within thirty days from the date that the appeal was received or if the outcome appears inconsistent with state policy, the student may formally request a hearing by CDHE's Appeal Board.

For issues that are within CDHE's authority CDHE will convene the appeals board. The board will request that the institution provide a 1- to 2-page document with rationale for its decision. The board will review the submitted material within two weeks and will meet to hear the student's appeal. The

board will recommend appropriate action. To ensure timely implementation of the decision, the decision will be communicated to both the student and institution. Such decisions are binding and not subject to further appeal. CDHE will respond to all other issues by letter.

Expedited Appeal Process

An enrolled student who receives a transcript evaluation that does not award general education transfer credit for a "state guaranteed" general education course may appeal directly to CDHE. The disputed credit must be earned in a course in which a student received a grade of "C" or better at a Colorado participating state guaranteed transfer institution. The student must have enrolled during the 2002-03 academic year or later. CDHE's staff will resolve such cases within five days.

Student Appeal Process for Colorado Guaranteed Transfer Program for General Education

If an eligible student believes that the Colorado Guaranteed Transfer for General Education has not been appropriately applied in the transfer process, a student may appeal this decision.

To be eligible under this policy, a student must meet the following criteria:

- Graduated with A.A. /A.S. Degree.
- Completed 35 credits of state-guaranteed general education.
- Earned grade of "C" or better in each course applied to the degree.
- Received a transfer evaluation by the four-year institution indicating that the student will need to complete more than 60 semester hours to complete a baccalaureate degree.

The community college transfer advisor may provide the student with information on the appeals policy and process. This information is also available at:

<http://highered.colorado.gov/Academics/Transfers/Students.html>.

Financial Aid Satisfactory Academic Progress (SAP) Appeal Process

Institutional College Opportunity Fund Waiver Process

The Colorado Opportunity Fund allows all resident students to apply the COF stipend to up to 145 credit hours. If a student goes over the 145-hour lifetime-credit-hour cap, the student may apply for a one-time, one year waiver of up to 30 credits. Students seeking this waiver must meet with an academic advisor to complete the waiver request requirements. Requirements include an academic plan, personal statement and Institutional COF Waiver form. The Chief Academic Officer will make a determination and communicate the decision to the student in writing within 30 days.

College Opportunity Fund Billing Appeal

The Department of Higher Education will accept billing appeals from students for COF stipends after the student has tried to resolve the issue with their respective institution. Appeals must be submitted within one year of the semester in question.

Admissions and Records or the Information Desk provides the COF Appeal form. The form is completed by the student and submitted to the Dean of Student Services who will provide information regarding the situation, attempts to communicate with the student, and will forward the appeal to the Department of Higher Education.

HB 1023 Waiver

Students may request a waiver to HB 1023.

Admissions and Records Coordinator provides the Waiver Request form to the student. The student completes form and explains why they believe they qualify for a waiver. The form is submitted to A&R and the Registrar makes a determination by the HB 1023 deadline for reporting. The Registrar checks lawful presence of non-immigrant aliens in the SAVE database. Decision will be communicated to the student in writing via the HB 1023 retroactive non-resident status letter which may also affect financial aid awards.

Course Substitution Appeal

Individual programs may have designated specific courses to meet general education requirements. When not specified within the specific degree program, students may select courses from the Approved General Education Course List for the A.A.S. Degree. A program advisor must approve any course substitution to the specific program requirements.

Students must meet with faculty advisor and complete the course substitution form. The appeal is reviewed by the Dean of Instruction and the Chief Academic Officer.

Graduation Appeal

Students who fail to apply for graduation by the established deadline may appeal to graduate.

Students should submit a graduation application and a letter explaining why they have not previously applied to graduate. If the certificate/degree has not changed, the appeal is heard by the Dean of Student Services. If the program has changed, the appeal is forwarded to the Registrar and Chief Academic Officer. Decisions are communicated to the student in writing within 30 days.

Student Complaints

FRCC Policy on Tracking of Student Complaints

To comply with the Higher Learning Commission policy, FRCC maintains records of the formal, written student complaints filed with the offices of the Chief Executive Officer, the Chief Academic Officer, and the Chief Student Services Officer including information about the disposition of the complaints, and those referred to external agencies for final resolution.

Since FRCC has a college system with site-based administrative leadership, compliance with the policy will include the top three administrative levels at each site as well as the college-wide level. In addition to the President, the site Vice Presidents, Deans of Instruction, and Deans of Student Services will record the process of complaint resolution and the outcome for any formal, written complaint received.

Definitions:

Complaint: A formal, written complaint is one regarding some alleged type of adverse action against a student from a decision made by the institution or alleged violation of student rights. A grievance may or may not be a complaint

based on the above guidelines. Appeals that request a re-examination of a decision are not considered a complaint unless there is some type of adverse action against a student from the decision or some alleged procedural unfairness is documented.

Student: A student is an individual who is currently enrolled full- or part-time or who has recently been enrolled in the institution. Previously enrolled students may be considered a student if they meet the criteria to re-enroll without having to reapply for admission. If the individual would have to reapply, then the complainant is not a student for the purposes of this policy.

Formal Written Complaint: Only complaints in writing that are mailed or delivered to an appropriate officer, or those referred back to the college by the Higher Learning Commission, are considered formal complaints. These written complaints must be addressed to an officer of the college and be signed by the student. Informal communications from students such as emails or faxes will not be considered a formal written complaint.

Procedures:

Step 1: Administrators (Dean, Vice President, or President) receiving a formal written complaint will complete the FRCC Record of Student Complaint Tracking Form after a concern has been resolved/concluded. The administrator resolving the complaint must inform the student registering the complaint that information about complaints must be shared with the Higher Learning Commission for accreditation purposes but that individual identities will be shielded.

Step 2: The Complaint Tracking Form and all paperwork involved in the complaint resolution will be forwarded to the Office of the Dean of Student Services. The Dean of Student Services will maintain records of the complaints by case number.

Step 3: The Dean of Student Services will be responsible to provide the complaint tracking records to the Higher Learning Commission reviewers upon request. Tracking will include at least the two years prior to the date of the evaluation visit.

Student Grievance Procedure

FRCC has a formal student grievance procedure that provides students the right to seek redress, when they believe that their rights or freedoms have been violated. A grievable offense is any alleged action that violates or inequitably applies written college policies or procedures. Students may not formally grieve a course grade, but may pursue grading clarification with the faculty member and the Dean of Instruction, and file a formal academic appeal. Procedures for lodging informal and formal grievances are available in the Office of Student Life, college information desks, the Office of the Dean of Student Services, or go to the Student Handbook at www.frontrange.edu/Current-Students/Student-Life.

Associate Degrees

Most associate degree programs may be completed in four semesters, if the student is attending on a full-time basis, successfully completing the required number of hours, following the specific educational plan provided by an advisor and is not required to complete developmental-level courses. A student may choose to extend the amount of time spent completing the degree.

General Requirements for Degrees and Certificates

For Degrees students must:

- Complete a minimum of 60 semester hours for the Associate of Arts (A.A.), Science (A.S.), or General Studies Degree (A.G.S.), or a specified number of semester hours for an Associate of Applied Science Degree.
- Earn a grade of "C" or better in all courses required for the A.A., A.S., A.G.S., and A.A.S. Degree. Programs may designate minimum acceptable grades. Students must earn a cumulative GPA of 2.0 for all courses attempted for the Associate of Arts, Science, or General Studies degree.
- Complete a minimum of 15 credit hours toward a degree at FRCC. These 15 credits hours include online courses taught by FRCC; CCCOnline courses also are considered FRCC courses when the student declares FRCC as their home institution.
- For A.A.S. Degrees, at least 15 credit hours must be within the major.
- Exceptions to the 15-credit-hour minimum may be made for designated A.A.S. Degrees.
- Provide official transcripts to the college if transfer credit is to be applied.
- Complete a graduation application by the deadline and submit to the Office of Admissions and Records.
- If necessary and due to extenuating circumstances, request a course substitution. The request must be documented on the Course Substitution Form and approved by the appropriate dean, Registrar, and Chief Academic Officer. Please note that the A.A. and A.S. Degrees with Designations do not allow for course substitutions.
- Complete the requirements in effect for the officially declared program of study as published in the college catalog (see Which Catalog to Use under Enrollment Processes). It should be noted that specific catalog requirements are subject to change by the college or its governing agencies. When such changes occur, the college notifies students affected by these changes and provides advising assistance.
- Continuing students who have not had a 12-month lapse in enrollment will be allowed to use the requirements listed in any catalog published while continuously attending the college. Students who have changed their program of study must use the catalog in effect on the date they made the official change with the college or reenrolled. Students must officially change their program of study with the Admissions and Records Office.

- Complete the college's competency examinations during the final semester of enrollment (CAAP-Collegiate Assessment of Academic Proficiency).

Students may not:

- Apply more than a total of six semester hours of independent study courses, variable credit courses or internship courses to an associate degree program, unless otherwise specified.
- Apply an "S" grade to any Guaranteed Transfer course.
- Apply more than 6 semester hours of an "S" grade to an Associate of Arts or an Associate of Science Degree.
- Use a "U" grade toward any associate degree program.
- Use developmental courses toward any associate degree program.
- Earn a lower academic degree after a higher degree has been awarded. If requirements for multiple degrees are met during a single academic term or year, the lowest degree is awarded first, followed by the higher degree, and no lower academic degree can be awarded at any time in the future. The hierarchy of academic degrees, from high to low is A.S. Degree with Designation, A.S., A.A. Degree with Designation, A.A., A.A.S., and A.G.S. Multiple A.A.S. degrees may be earned if degree requirements for each degree are met. There is no limit to the number of credits that may be applied to more than one degree.

For Certificates students must:

- Complete all course requirements listed in the catalog.
- Earn at least 25 percent of the total certificate credit hours at FRCC.
- Earn a grade of "C" or better for all courses required for the certificate. Please note that some programs require a higher GPA or have minimum required grades above a "C" to be eligible for a certificate.
- Provide official transcripts to the college if transfer credits are to be applied
<http://www.frontrange.edu/transfertoFRCC/>.
- Complete a graduation application by the deadline at <http://www.frontrange.edu/Current-Students/Graduation/>.
- Complete the requirements in effect for the officially declared certificate as published in the college catalog (see Which Catalog to Use under Enrollment Processes). If returning to FRCC after not being enrolled at the college for 12 consecutive months or more, students are subject to the requirements of the catalog in effect for the certificate at the time of re-enrollment.

Transferring Credit to Four-Year Schools

Students who select an Associate of Arts or Associate of Science Degree are generally interested in pursuing their education by transferring to four-year institutions. It is important to note:

1. Students who have graduated from a community college have fewer transfer difficulties than those who transfer without graduating.
2. The transfer of "D" credits is dependent upon the policy of each institution. "D" credit in the A.A. and A.S. degrees will

invalidate the guaranteed transfer of those degrees. “D” grades earned after September 1, 2005 will not be applicable to A.A., A.S., and A.G.S degrees at FRCC.

3. Most institutions only transfer courses for which they have equivalent offerings.
4. A change of program of study may extend the time required to complete a degree.

Because graduation requirements vary among institutions, students should familiarize themselves with the general education requirements of the institution to which they intend to transfer. For transfer assistance, contact a FRCC advisor or counselor. Transfer agreements for Colorado public higher education institutions may be viewed at: <http://highered.colorado.gov/Academics/Transfers/>. Transfer information may also be obtained from four-year college and university representatives who visit FRCC. Students are also encouraged to visit the school to which they plan on transferring.

Transfer Agreements:

FRCC participates in the Colorado Guaranteed Transfer Program for General Education. (See Colorado Guaranteed Transfer Program for General Education and Associate Degrees of Arts and Science with specific designations.) In addition, special transfer agreements between FRCC and other institutions or between the Colorado Community College System and other institutions enable students to transfer credits from specified FRCC programs. Transfer agreements exist with the following colleges and universities:

- Adams State University
- Colorado School of Mines
- Colorado State University
- Colorado State University-Pueblo
- DeVry University
- Fort Lewis College
- Johnson and Wales University
- Kaplan University
- Mesa State University
- Metropolitan State University of Denver
- Regis University
- University of Colorado-Boulder
- University of Colorado-Colorado Springs
- University of Colorado-Denver
- University of Colorado-Health Sciences Center
- University of Denver
- University of Northern Colorado
- University of Phoenix
- Western State Colorado University

Transfer courses will be evaluated for FRCC course equivalency and applied to certificate and degree requirements according to state and college policy. For more information contact the Advising Department at FRCC or the institution to which you plan to transfer.

Guaranteed Transferability

of Associate of Arts Degree and Associate of Science Degree to Colorado Public Four-Year Colleges and Universities

Colorado’s agreement between public colleges and universities guarantees that when a student completes an A.A. or A.S. Degree—at least 60 semester credit hours of coursework completed with a grade of “C” or better in every course—a student may transfer to a public baccalaureate program with a Liberal Arts and Sciences major (e.g., English, geography, biology) and graduate after earning an additional 60 semester credit hours. Courses with an “S/U” grade will not be eligible for Guaranteed Transferability. While a student is guaranteed not to have to complete more than 60 semester hours to graduate, completing a baccalaureate degree within two years depends on the number of credits a student completes each semester at the four-year institution, course sequencing in the student’s major (e.g., some upper-division major courses require that a student first complete lower-division major courses), as well as course availability.

This agreement does not apply to Early Childhood Education, Elementary Education, Engineering and Nursing degrees. These majors have statewide transfer or articulation agreements that have specific lower division requirements.

Associate Degrees with Designations provide transfer pathways to Colorado state four-year colleges and universities in specified liberal arts and science designations. The following designations are currently approved:

Anthropology - Associate of Arts
 Business - Associate of Arts
 Criminal Justice - Associate of Arts
 Economics - Associate of Arts
 French - Associate of Arts
 History - Associate of Arts
 Mathematics - Associate of Science
 Political Science - Associate of Arts
 Psychology - Associate of Arts and Associate of Science
 Sociology - Associate of Arts
 Spanish - Associate of Arts

Many other majors also require that students select specific courses from the gtPathways courses. Students should contact a transfer advisor at the earliest opportunity to review appropriate transfer guides. These guides indicate which lower division courses are required for articulated programs, or are most appropriate for the student’s major. These guides also indicate the appropriate prerequisites for sequenced coursework that should be taken before transferring to a four-year college.

Transfer courses will be evaluated for FRCC course equivalency and applied to degree requirements according to state and college policy. Completion of FRCC equivalent guaranteed transfer (gt) course requirements from any regionally accredited institution will meet FRCC degree requirements.

Credit earned through prior learning methodologies (including CLEP, Advanced Placement, International Baccalaureate, articulation, military, corporate, challenge exam, portfolio credit, substitutions, correspondence courses, or independent study) may meet FRCC degree requirements. A student who is awarded credit using standardized credit for prior learning assessments may be granted a degree with designation and a gtPathways notation on their CCCS

transcript. The receiving Colorado public institution will be obligated to honor the promise that completion of the A.A./A.S. with designation and/or gtPathway curriculum fulfill the lower division requirements as defined by the statewide articulation agreement. The receiving institution will evaluate those credits according to its standard policy. Students who wish to use credits awarded by exam to fulfill specific course requirements are responsible for consulting with the institution to which they are considering transferring to determine whether the credits they have been awarded by exam meet the standards of the receiving institution for specific course equivalents.

The Transfer Policy of the Colorado Department of Higher Education is available at:
<http://higher.ed.colorado.gov/Academics/Transfers/Students.html>.

FRCC Guaranteed Completion of A.A. / A.S. in Two Years

The Colorado Community College System (CCCS) colleges have adopted a set of guidelines to define the conditions for students who expect to graduate with an Associate of Science or Associate of Arts Degree in two calendar years. The Academic Advising Center at each individual CCCS community college can provide additional information.

The Colorado Community College System colleges guarantee that a student will be able to complete all course work necessary to earn an A.A. or A.S. degree from a specific CCCS college in 60 credit hours and in 24 months.

Students must satisfy all the conditions below to be eligible for this guarantee:

1. Enroll at the same community college for at least four consecutive semesters, excluding summer.
2. Register within one week of the beginning of registration for each semester.
3. Have completed all required developmental coursework before beginning the count of two years to degree completion.
4. Enroll in and pass ("C" or better) an average of 15 credit hours of coursework that applies to the A.A. /A.S. in each of four consecutive semesters.
5. Obtain a recommended plan of study for the A.A. or A.S. degree, signed by the student and community college advisor, prior to registration for the second semester and according to the requirements of the degree.
6. Follow the signed plan of study.
7. Continue with the same degree (A.A. or A.S.) from entrance to graduation.
8. Retain documentation demonstrating that all the above requirements were satisfied (transcripts, advising records, etc.).

Statewide Transfer Policy and Student Bill of Rights

In an effort to enhance the transferability of credit and general education, the Colorado legislature implemented a policy to assure students enrolled in public institutions of higher education are afforded certain basic rights. Known as the

Student Bill of Rights, its provisions seek to ensure:

- A quality general education experience that develops competencies in reading, writing, mathematics, technology, and critical thinking through integrated arts and science experience.
- Students should be able to complete their Associate of Arts and Associate of Science Degree programs in no more than 60 credit hours or their baccalaureate programs in no more than 120 credit hours unless there are additional degree requirements recognized by the commission.
- A student may sign a two-year or four-year graduation agreement that formalizes a plan for the student to obtain a degree in two or four years, unless there are additional degree requirements recognized by the commission.
- Students have a right to clear and concise information concerning which courses must be completed successfully to complete their degrees.
- Students have a right to know which courses are transferable among the state public two-year and four-year institutions of higher education.
- Students, upon successful completion of core general education courses, should have those courses satisfy the core course requirements of all Colorado public institutions of higher education.
- Students have the right to know if courses from one or more public higher education institutions satisfy the student's graduation requirements.
- Credit for completion of the core requirements and core courses shall not expire for 10 years from the date of initial enrollment and shall be transferable.

Colorado Guaranteed Transfer Program for General Education

The Colorado Department of Higher Education, in consultation with Colorado's public colleges and universities, has developed a standardized concept of general education and has identified the specific courses to satisfy these general education requirements. The curriculum consists of 31 credit hours of courses across these specific content areas: communication, mathematics, humanities, natural sciences, and social sciences. These courses have been designed to ensure that students demonstrate competency in reading, critical thinking, written communication, mathematics, and technology. Receiving institutions shall apply the 31 credit hours of guaranteed general education courses to a student's general education or major requirements.

The State Guaranteed General Education content areas are identified by the following designations:

GT — Guaranteed Transfer Course Disciplines:

AH - Arts and Humanities (6 credit hours)

- AH1 – Arts and Expression
- AH2 – Literature and Humanities
- AH3 – Ways of Thinking
- AH4 – Foreign Languages

CO - Communication (6 credit hours in either CO1 & CO2 or CO2 & CO3)

- CO1-Introductory Writing

FRONT RANGE COMMUNITY COLLEGE

CO2-Intermediate Writing

CO3-Advanced Writing

HI - History (3 credit hours)

HI1-History

MA - Mathematics (3 credit hours)

SC - Natural and Physical Sciences (7 credit hours, one course must be SC1)

SC1 – Science with Laboratory

SC2 – Science without Laboratory

SS - Social and Behavioral Sciences (3 credit hours)

SS1 – Economic or Political Systems

SS2 – Geography

SS3 – Human Behavior, Culture or Social Frameworks

Additional 3 credit hours must be from any Arts & Humanities, History, or Social & Behavioral Sciences

The following courses have been identified by the Colorado Department of Higher Education as being the Colorado Guaranteed Transfer Program for General Education:

Note: These courses may be completed at any Colorado public higher education institution. Completion of the course requirements by credit for prior learning or transfer from any other institution may meet FRCC degree requirements but may invalidate the guaranteed transfer of A.A. /A.S. Degrees.

Arts and Humanities • GT - AH

ART 110 Art Appreciation	GT-AH1	3
ART 111 Art History: Ancient to Medieval	GT-AH1	3
ART 112 Art History: Renaissance to Modern	GT-AH1	3
ART 207 Art 1900 to the Present	GT-AH1	3
DAN 125 History of Dance I	GT-AH 1	3
FRE 211 French Language III	GT-AH4	3
FRE 212 French Language IV	GT-AH4	3
GER 211 German Language III	GT-AH4	3
GER 212 German Language IV	GT-AH4	3
HUM 115 Humanities: World Mythology	GT- AH2	3
HUM 121 Humanities: Early Civilizations	GT- AH2	3
HUM 122 Humanities: Medieval to Modern	GT- AH2	3
HUM 123 Humanities: The Modern World	GT- AH2	3
ITA 211 Italian Language III	GT-AH4	3
ITA 212 Italian Language IV	GT-AH4	3
JPN 211 Japanese Language III	GT-AH4	3
JPN 212 Japanese Language IV	GT-AH4	3
LIT 115 Introduction to Literature I	GT-AH2	3
LIT 201 Masterpieces of Literature I	GT-AH2	3
LIT 202 Masterpieces of Literature II	GT-AH2	3
LIT 205 Ethnic Literature	GT-AH2	3
LIT 211 Survey of American Literature I	GT-AH2	3
LIT 212 Survey of American Literature II	GT-AH2	3
LIT 221 Survey of British Literature I	GT-AH2	3
LIT 222 Survey of British Literature II	GT-AH2	3
LIT 225 Introduction to Shakespeare	GT-AH2	3
LIT 259 Survey of African American Literature	GT-AH2	3

LIT 268 Celtic Literature	GT-AH2	3
MUS 120 Music Appreciation	GT-AH1	3
MUS 121 Music History I	GT-AH1	3
MUS 122 Music History II	GT-AH1	3
MUS 123 Survey of World Music	GT-AH 1	3
MUS 125 History of Jazz Music	GT-AH 1	3
PHI 111 Introduction to Philosophy	GT-AH3	3
PHI 112 Ethics	GT-AH3	3
PHI 113 Logic	GT- AH3	3
PHI 114 Comparative Religions	GT-AH3	3
PHI 214 Philosophy of Religion	GT-AH3	3
PHI 218 Environmental Ethics	GT-AH3	3
PHI 220 Philosophy of Death and Dying	GT-AH3	3
RUS 211 Russian Language III	GT-AH4	3
RUS 212 Russian Language IV	GT-AH4	3
SPA 211 Spanish Language III	GT-AH4	3
SPA 212 Spanish Language IV	GT-AH4	3
THE 105 Theatre Appreciation	GT-AH1	3
THE 211 Development of Theatre I	GT-AH1	3
THE 212 Development of Theatre II	GT-AH1	3

Communications • GT - CO

ENG 121 English Composition I	GT-CO1	3
ENG 122 English Composition II	GT-CO2	3
ENG 201 Writing for Public Discourse	GT-CO3	3

Mathematics • GT - MA

MAT 120 Mathematics for the Liberal Arts <i>(Not Applicable to the A.S. Degree)</i>	GT-MA1	4
MAT 121 College Algebra	GT-MA1	4
MAT 122 College Trigonometry	GT-MA1	3
MAT 123 Finite Mathematics (A.A. Degree only)	GT-MA1	4
MAT 125 Survey of Calculus	GT-MA1	4
MAT 135 Introduction to Statistics <i>(Not Applicable to the A.S. Degree)</i>	GT-MA1	3
MAT 166 Pre-Calculus	GT-MA1	5
MAT 201 Calculus I	GT-MA1	5
MAT 202 Calculus II	GT-MA1	5
MAT 203 Calculus III	GT-MA1	4
MAT 204 Calculus III with Engineering Applications	GT-MA1	5
MAT 265 Differential Equations	GT-MA1	3

History • GT - HI

HIS 101 Western Civilization: Antiquity to 1650	GT-HI1	3
HIS 102 Western Civilization: 1650 to Present	GT-HI1	3
HIS 111 The World: Antiquity to 1500	GT-HI1	3
HIS 112 The World: 1500 to Present	GT-HI1	3
HIS 201 U.S. History to the Reconstruction	GT-HI1	3
HIS 202 U.S. History since the Civil War	GT-HI1	3
HIS 207 American Environmental History	GT-HI1	3
HIS 208 American Indian History	GT-HI1	3

2013-2014 CATALOG

HIS 215 Women in U.S. History	GT-HI1	3
HIS 225 Colorado History	GT-HI1	3
HIS 236 U.S. History Since 1945	GT-HI1	3
HIS 244 History of Latin America	GT-HI1	3
HIS 247 20th Century World History	GT-HI1	3
HIS 249 History of Islamic Civilization	GT-HI1	3
HIS 255 The Middle Ages	GT-HI1	3
HIS 260 U.S. Foreign Relations History	GT-HI1	3
Social and Behavioral Sciences • GT - SS		
ANT 101 Cultural Anthropology	GT-SS3	3
ANT 107 Introduction to Archaeology	GT-SS3	3
ANT 111 Physical Anthropology	GT-SS3	3
ANT 201 Intro to Forensic Anthropology	GT-SS3	3
ANT 215 Indians of North America	GT-SS3	3
ANT 250 Medical Anthropology	GT-SS3	3
COM 220 Intercultural Communication	GT-SS3	3
ECO 101 Economics of Social Issues	GT-SS1	3
ECO 201 Principles of Macroeconomics	GT-SS1	3
ECO 202 Principles of Microeconomics	GT-SS1	3
ECO 245 Environmental Economics	GT-SS1	3
ETH 200 Introduction to Ethnic Studies	GT-SS3	3
GEO 105 World Regional Geography	GT-SS2	3
GEO 106 Human Geography	GT-SS2	3
JOU 105 Introduction to Mass Media	GT-SS3	3
POS 105 Introduction to Political Science	GT-SS1	3
POS 111 American Government	GT-SS1	3
POS 125 American State and Local Government	GT-SS1	3
POS 205 International Relations	GT-SS1	3
POS 215 Current Political Issues	GT-SS1	3
POS 225 Comparative Government	GT-SS1	3
PSY 101 General Psychology I	GT-SS3	3
PSY 102 General Psychology II	GT-SS3	3
PSY 205 Psychology of Gender	GT-SS3	3
PSY 217 Human Sexuality	GT-SS3	3
PSY 226 Social Psychology	GT-SS3	3
PSY 227 Psychology of Death and Dying	GT-SS3	3
PSY 235 Human Growth and Development	GT-SS3	3
PSY 238 Child Development	GT-SS3	3
PSY 249 Abnormal Psychology	GT-SS3	3
SOC 101 Introduction to Sociology I	GT-SS3	3
SOC 102 Introduction to Sociology II	GT-SS3	3
SOC 205 Sociology of Family Dynamics	GT-SS3	3
SOC 207 Environmental Sociology	GT-SS3	3
SOC 215 Contemporary Social Problems	GT-SS3	3
SOC 216 Sociology of Gender	GT-SS3	3
SOC 218 Sociology of Diversity	GT-SS3	3
SOC 220 Sociology of Religion	GT-SS3	3
SOC 231 Sociology of Deviant Behavior	GT-SS3	3
SOC 237 Sociology of Death and Dying	GT-SS3	3
WST 200 Introduction to Women's Studies	GT-SS3	3

WST 225 Perspectives on Women and Social Change	GT-SS3	3
WST 240 Goddesses and Women in the Ancient World	GT-SS3	3

Natural and Physical Sciences • GT - SC

AGY 240 Introductory Soil Science	GT-SC1	4
AST 101 Astronomy I	GT-SC1	4
AST 102 Astronomy II	GT-SC1	4
BIO 105 Science of Biology (<i>Not Applicable to the A.S. Degree</i>)	GT-SC1	4
BIO 111 General College Biology I with Lab	GT-SC1	5
BIO 112 General College Biology II with Lab	GT-SC1	5
BIO 201 Human Anatomy and Physiology I	GT-SC1	4
BIO 202 Human Anatomy and Physiology II	GT-SC1	4
BIO 204 Microbiology	GT-SC1	4
BIO 208 General College Microbiology	GT-SC1	5
BIO 221 Botany	GT-SC1	4
CHE 101 Introduction to Chemistry I (<i>Not Applicable to the A.S. Degree</i>)	GT-SC1	5
CHE 102 Introduction to Chemistry II (<i>Not Applicable to the A.S. Degree</i>)	GT-SC1	5
CHE 105 Chemistry in Context (<i>Not Applicable to the A.S. Degree</i>)	GT-SC1	5
CHE 111 General College Chemistry I	GT-SC1	5
CHE 112 General College Chemistry II	GT-SC1	5
ENV 101 Introduction to Environmental Science	GT-SC1	4
GEO 111 Physical Geography - Landforms	GT-SC1	4
GEO 112 Physical Geography-Weather and Climate	GT-SC1	4
GEY 111 Physical Geology	GT-SC1	4
GEY 112 Historical Geology	GT-SC1	4
MET 150 General Meteorology	GT-SC1	4
PHY 105 Conceptual Physics	GT-SC1	4
PHY 107 Energy Science and Technology	GT-SC1	4
PHY 111 Physics: Algebra-Based I with Lab	GT-SC1	5
PHY 112 Physics: Algebra-Based II with Lab	GT-SC1	5
PHY 211 Physics: Calculus-Based I with Lab	GT-SC1	5
PHY 212 Physics: Calculus-Based II with Lab	GT-SC1	5
SCI 155 Integrated Science I with Lab (<i>Not Applicable to the A.S. Degree</i>) Students must also complete SCI 156 to meet the total GT-SC1 requirement for the A.A. Degree.	GT-SC1	4
SCI 156 Integrated Science II with Lab (<i>Not Applicable to the A.S. Degree</i>) Students must also complete SCI 155 to meet the total GT-SC1 requirement for the A.A. Degree.	GT-SC1	4

Associate of Arts Degree

Code: F_AA_AA

This is a transfer degree designed for students who plan to major in subject areas such as: anthropology, art, criminal

justice, English, ethnic studies, foreign language, geography, humanities, journalism, literature, music, philosophy, political science, sociology, social work, speech, theatre, and women's studies.

The community colleges in Colorado are approved to offer one general Associate of Arts Degree with a generic major of liberal arts, as well as specialized Associates of Arts Degrees in five areas of designation: Business, Economics, History, Psychology, and Spanish. While a student may tailor the generic Associate of Arts Degree to prepare for specific transfer options, all official documents and diplomas issued by the college will only indicate the awarding of an Associate of Arts Degree without any indication of a more specific area of study unless the student completes the requirements for one of the areas of designation noted above.

Advising Sheet: Associate of Arts Degree Worksheet

Unofficial Degree Check Catalog Year: 2013-2014

Student Name: _____

Date: _____

Required General Education Courses:

Guaranteed transfer courses that are not offered by FRCC, but are taken at other Colorado institutions, may apply to the appropriate GT category under Required General Education Courses.

Written Communication

(GT-CO1, GT-CO2, GT-CO3) (6 semester credits) Take one pair of courses

- ENG 121 (3) and ENG 122 (3) OR
- ENG 122 (3) and ENG 201 (3) OR another GT-CO3 course)

Oral Communication

(3 semester credits) Take one course.

- COM 115 (3) COM 125 (3) COM 220 (3)
- COM 220 (GT-SS3) may fulfill the Communication OR Social and Behavioral Sciences requirement, **but not both**.

Note: Completing COM courses is a Colorado Community College System requirement, not a gtPATHWAYS requirement.

Mathematics

(GT-MA1) (3 semester credits) Take one course. Credits over 3 will be applied to elective category.

- MAT 120 (4) MAT 121 (4) MAT 122 (3)
- MAT 123 (4) MAT 125 (4) MAT 135 (3)
- MAT 166 (5) MAT 201 (5) MAT 202 (5)
- MAT 203 (4) MAT 204 (5) MAT 265 (3)

Natural & Physical Sciences

(GT-SC1, GT-SC2) (7 semester credits) Take two courses. Credits over 7 will be applied to elective category. Take two guaranteed transfer Natural & Physical Sciences courses including at least one lab course.

- AGY 240 (4) AST 101 (4) AST 102 (4)
- BIO 105 (4) BIO 111 (5) BIO 112 (5)
- BIO 201 (4) BIO 202 (4) BIO 204 (4)

-
- BIO 208 (5) BIO 221 (5)
 - CHE 101 (5) CHE 102 (5) CHE 105 (5)
 - CHE 111 (5) CHE 112 (5) ENV 101 (4)
 - GEO 111 (4) GEO 112 (4) GEY 111 (4)
 - GEY 112 (4) GEY 135 (4) MET 150 (4)
 - PHY 105 (4) PHY 107 (4)

-
- PHY 111 (5) PHY 112 (5) PHY 211 (5)
 - PHY 212 (5) SCI 155 (4) SCI 156 (4)

Arts & Humanities, History, and Social & Behavioral Sciences

(18 credits total)

Students must take: two guaranteed transfer Arts & Humanities courses from two different areas; two guaranteed transfer Social & Behavioral Sciences courses from two different areas; one guaranteed transfer History course (GT-HI1); and one additional guaranteed transfer course from either Arts & Humanities, History or Social & Behavioral Sciences (GT-AH1, GT-AH2, GT-AH3 or GT-AH4, GT-HI1, GT-SS1, GT-SS2, or GT-SS3).

Arts & Humanities

(6 semester credits)

Take six credits from two different areas (GT-AH1, GT-AH2, GT-AH3, or GT-AH4)

Arts (GT-AH1)

-
- ART 110 (3) ART 111 (3) ART 112 (3)
 - ART 207 (3) DAN 125 (3) MUS 120 (3)
 - MUS 121 (3) MUS 122 (3) MUS 123 (3)
 - MUS 125 (3) THE 105 (3) THE 211 (3)
 - THE 212 (3)

Literature & Humanities (GT-AH2)

-
- HUM 115 (3) HUM 121 (3) HUM 122 (3)
 - HUM 123 (3) LIT 115 (3) LIT 201 (3)
 - LIT 202 (3) LIT 205 (3) LIT 211 (3)
 - LIT 212 (3) LIT 221 (3) LIT 222 (3)
 - LIT 225 (3) LIT 259 (3) LIT 268 (3)

Ways of Thinking (GT-AH3)

-
- PHI 111 (3) PHI 112 (3) PHI 113 (3)
 - PHI 114 (3) PHI 214 (3) PHI 218 (3)
 - PHI 220 (3)

Foreign Languages (GT-AH4)

-
- FRE 211 (3) FRE 212 (3) GER 211 (3)
 - GER 212 (3) ITA 211 (3) ITA 212 (3)
 - JPN 211 (3) JPN 212 (3) RUS 211 (3)
 - RUS 212 (3) SPA 211 (3) SPA 212 (3)

History

(3 semester credits) Take one course.

History (GT-HI1)

-
- HIS 101 (3) HIS 102 (3) HIS 111 (3)
 - HIS 112 (3) HIS 201 (3) HIS 202 (3)

- | | | |
|--------------------------------------|--------------------------------------|--------------------------------------|
| <input type="checkbox"/> HIS 207 (3) | <input type="checkbox"/> HIS 208 (3) | <input type="checkbox"/> HIS 215 (3) |
| <input type="checkbox"/> HIS 225 (3) | <input type="checkbox"/> HIS 236 (3) | <input type="checkbox"/> HIS 243 (3) |
| <input type="checkbox"/> HIS 244 (3) | <input type="checkbox"/> HIS 245 (3) | <input type="checkbox"/> HIS 247 (3) |
| <input type="checkbox"/> HIS 249 (3) | <input type="checkbox"/> HIS 255 (3) | <input type="checkbox"/> HIS 260 (3) |

Social & Behavioral Sciences

(6 semester credits) Take six credits from two different areas (GT-SS1, GT-SS2, GT-SS3)

Economics & Political Systems (GT-SS1)

- | | | |
|--------------------------------------|--------------------------------------|--------------------------------------|
| <input type="checkbox"/> ECO 101 (3) | <input type="checkbox"/> ECO 201 (3) | <input type="checkbox"/> ECO 202 (3) |
| <input type="checkbox"/> ECO 245 (3) | <input type="checkbox"/> POS 105 (3) | <input type="checkbox"/> POS 111 (3) |
| <input type="checkbox"/> POS 125 (3) | <input type="checkbox"/> POS 205 (3) | <input type="checkbox"/> POS 215 (3) |
| <input type="checkbox"/> POS 225 (3) | | |

Geography (GT-SS2)

- | | |
|--------------------------------------|--------------------------------------|
| <input type="checkbox"/> GEO 105 (3) | <input type="checkbox"/> GEO 106 (3) |
|--------------------------------------|--------------------------------------|

Human Behavior, Culture or Social Frameworks (GT-SS3)

- | | | |
|--------------------------------------|--------------------------------------|--------------------------------------|
| <input type="checkbox"/> ANT 101 (3) | <input type="checkbox"/> ANT 102 (1) | <input type="checkbox"/> ANT 103 (1) |
| <input type="checkbox"/> ANT 104 (1) | <input type="checkbox"/> ANT 107 (3) | <input type="checkbox"/> ANT 111 (3) |
| <input type="checkbox"/> ANT 201 (3) | <input type="checkbox"/> ANT 215 (3) | <input type="checkbox"/> ANT 250 (3) |
| | <input type="checkbox"/> COM 220 (3) | <input type="checkbox"/> ETH 200 (3) |

- | | | |
|--------------------------------------|--------------------------------------|--------------------------------------|
| <input type="checkbox"/> JOU 105 (3) | <input type="checkbox"/> PSY 101 (3) | <input type="checkbox"/> PSY 102 (3) |
| <input type="checkbox"/> PSY 205 (3) | <input type="checkbox"/> PSY 217 (3) | <input type="checkbox"/> PSY 226 (3) |
| <input type="checkbox"/> PSY 227 (3) | <input type="checkbox"/> PSY 235 (3) | <input type="checkbox"/> PSY 238 (3) |
| <input type="checkbox"/> PSY 249 (3) | <input type="checkbox"/> SOC 101 (3) | <input type="checkbox"/> SOC 102 (3) |
| <input type="checkbox"/> SOC 205 (3) | <input type="checkbox"/> SOC 207 (3) | <input type="checkbox"/> SOC 215 (3) |
| <input type="checkbox"/> SOC 216 (3) | <input type="checkbox"/> SOC 218 (3) | <input type="checkbox"/> SOC 220 (3) |
| <input type="checkbox"/> SOC 231 (3) | <input type="checkbox"/> SOC 237 (3) | <input type="checkbox"/> WST 200 (3) |
| <input type="checkbox"/> WST 225 (3) | <input type="checkbox"/> WST 240 (3) | <input type="checkbox"/> WST 249 (3) |

Student Choice

(3 semester credits)

Student Choice

One additional guaranteed transfer course from either Arts & Humanities, History or Social & Behavioral Sciences (GT-AH1, GT-AH2, GT-AH3, GT-AH4, GT-HI1, GT-SS1, GT-SS2, or GT-SS3)

SUBTOTAL (37 semester credits required)

Additional Electives

(23 semester credits)

Additional 23 semester credits of electives selected from the Approved Electives List. Selection of elective credits should be done in consultation with an advisor and the four-year institution to which you intend to transfer.

- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____

TOTAL (60 semester credits required)

IMPORTANT

- ♦ This degree worksheet is subject to change. Please work closely with an advisor to create your academic plan and ensure a successful experience at FRCC.
- ♦ To check your degree status, go to your eWOLF account, click on Degree Check, and review your progress toward your degree.
- ♦ An absence of 12 months constitutes a break in enrollment and invalidates this review and possibly this plan of study.

ADDITIONAL GRADUATION REQUIREMENTS FOR ASSOCIATE OF ARTS DEGREE

- ♦ No developmental courses may be applied to this degree.
- ♦ No more than 6 semester credits in independent study or internships in the prefixes following may be applied to this degree.
- ♦ Minimum Grade Point Average 2.0; only grades of "C" or above may be applied to this degree.
- ♦ Minimum 15 degree-applicable semester credits must be completed at FRCC.
- ♦ Submit graduation application, transfer credits, and credit for prior learning to Admissions & Records by deadline and complete CAAP exam (see Class Schedule for dates).
- ♦ Continuing students who have not had a 12-month lapse in enrollment will be allowed to use the requirements listed in any catalog published while continuously attending the college.

COLORADO GUARANTEED TRANSFER PROGRAM FOR GENERAL EDUCATION (gtPATHWAYS)

After starting on your higher education pathway at any public college or university in Colorado, and, upon acceptance to another, you can transfer up to **31 credits** of successfully (C- or above) completed gtPATHWAYS (general education) coursework. These courses are guaranteed to transfer with you and count toward your general education core or graduation requirements for most, but not all, associate's or bachelor's degree programs. If you completed a course before it became effective as a gtPATHWAYS course, the institution to which you transfer has the option to accept it or not accept it. For more information and the most updated list of gtPATHWAYS courses, including dates when individual courses became effective, visit <http://higher.ed.colorado.gov/Academics/Transfers/gtPathways/curriculum.html>. Guaranteed transfer courses that are not offered by FRCC, but are taken at other Colorado institutions, may apply to the appropriate GT category under Required General Education Courses.

If you complete an Associate of Arts or Associate of Science degree, 60 credits are guaranteed to transfer to a four-year school, once you are accepted for admission. You should be able to finish a bachelor's degree within another 60 credits. This is called a 60+60 transfer plan. Please note that some majors at the four-year schools require specific courses that must be completed as part of the A.A. or A.S. degree. Note also that some majors may exceed the typical 120 credits required to graduate. For more information on Colorado's 60+60 program, including transfer guides and a list of applicable degrees, visit <http://higher.ed.colorado.gov/Academics/Transfers/gtPathways/default.html>.

Additional notes regarding transfer:

Transferring credit to FRCC: Transfer courses will be evaluated for FRCC course equivalency and applied to degree requirements according to state and college policy. Completion of FRCC equivalent guaranteed transfer (gt) course requirements from any regionally accredited institution will meet FRCC degree requirements.

Credit for Prior Learning: Credit earned through prior learning methodologies (including CLEP, Advanced Placement, International Baccalaureate, articulation, military, corporate, challenge exam, portfolio credit, correspondence courses, or independent study) may meet FRCC degree requirements. A student who is awarded credit using standardized credit for prior learning assessments may be granted a degree with designation & a gt Pathways notation on their CCCS transcript. The receiving Colorado public institution will be obligated to honor the promise that completion of the AA/AS with designation and/or gt Pathway curriculum fulfills the lower division requirements as defined by the statewide articulation agreement. The receiving institution will evaluate those credits according to its standard policy. Students who wish to use credits awarded by exam to fulfill specific course requirements are responsible for consulting with the institution to which they are considering transferring to determine whether the credits they have been awarded by exam meet the standards of the receiving institution for specific course equivalents.

Generally, credits accepted in transfer will be less than 10 years old, though all credit which is not outdated or obsolete, and is applicable to the student's degree program, may be accepted. The final determination of acceptance of credit based on content and age of the credit is made by the appropriate college instructional department and instructional dean.

APPROVED ELECTIVE LIST FOR ASSOCIATE OF ARTS DEGREE

Elective credit for the Associate of Arts degree must be completed from the following list of approved prefixes and courses. While some of the following courses may be considered generally transferable, a student's major at a four-year college or university may limit what credit will be accepted and applied toward degree requirements at that institution. Selection of elective credits and course sequencing should be done in consultation with an advisor and the four-year institution to which you intend to transfer.

ACC	101, 121, 122
AGY	240
AIR	All AIR courses in this catalog
ANT	All ANT courses in this catalog
ARA	All ARA courses in this catalog
ARM	All ARM courses in this catalog
ART	All ART courses in this catalog
ASL	121, 122, 123, 221, 222
AST	All AST courses in this catalog
BIO	105, 106, 111, 112, 115, 160, 201, 202, 204, 208, 216, 221, 222
BUS	115, 203, 216, 217, 226
CHE	All CHE courses in this catalog

CHI	All CHI courses in this catalog
CIS	115, 118
COM	All COM courses in this catalog
CRJ	110, 111, 112, 125, 127, 135, 145, 205, 209, 210, 220, 230, 235, 236, 257
CSC	All CSC courses in this catalog
DAN	All DAN courses in this catalog <i>Note: DAN, OUT & PED combined up to 3 credits cumulative. DAN 125 may be applied as an arts and humanities elective rather than a physical activities course.</i>
ECO	All ECO courses in this catalog
ENG	121 and above
ENV	101
ETH	All ETH courses in this catalog
FRE	All FRE courses in this catalog
GEO	All GEO courses in this catalog
GER	All GER courses in this catalog
GEY	All GEY courses in this catalog
HIS	All HIS courses in this catalog
HUM	All HUM courses in this catalog
HWE	100, 103, 110, 124
ITA	All ITA courses in this catalog
JOU	All JOU courses in this catalog
JPN	All JPN courses in this catalog
LIT	All LIT courses in this catalog
MAN	226
MAR	216, 220
MAT	120 or above
MET	All MET courses in this catalog
MGD	133, 221, 222, 233
MUS	All MUS courses in this catalog
OUT	All OUT courses in this catalog <i>Note: DAN, OUT & PED combined up to 3 credits cumulative. DAN 125 may be applied as an arts and humanities elective rather than a physical activities course.</i>
PED	All PED courses in this catalog <i>Note: DAN, OUT & PED combined up to 3 credits cumulative. DAN 125 may be applied as an arts and humanities elective rather than a physical activities course.</i>
PHI	All PHI courses in this catalog
PHY	All PHY courses in this catalog
POS	All POS courses in this catalog
PSY	All PSY courses in this catalog
RUS	All RUS courses in this catalog
SCI	All SCI courses in this catalog
SOC	All SOC courses in this catalog
SPA	All SPA courses in this catalog
THE	All THE courses in this catalog
WST	All WST courses in this catalog
GT	All Guaranteed Transfer courses in this catalog

Note: This list applies only to courses shown in the FRCC catalog, and to transfer credit which is equivalent to FRCC Catalog courses. Transfer courses which are identified with "999" course numbers (with the exception of Career Technical Electives) are also approved as elective credit.

Associate of Science Degree

Code: F_AS_AS

This is a transfer degree designed for students who plan to major in subject areas such as: astronomy, biology, chemistry, computer science, geology, meteorology, and physics.

The community colleges in Colorado are approved to offer one general Associate of Science Degree. This degree has a generic major of liberal arts. Two A.S. degrees with designations are approved in Mathematics and Psychology.

Advising Sheet: Associate of Science Degree Worksheet

Unofficial Degree Check Catalog Year: 2013-2014

Student Name: _____

Date: _____

Required General Education Courses:

Guaranteed transfer courses that are not offered by FRCC, but are taken at other Colorado institutions, may apply to the appropriate GT category under Required General Education Courses.

Written Communication

(GT-CO1, GT-CO2, GT-CO3) (6 semester credits) Take one pair of courses.

ENG 121 (3) and ENG 122 (3) OR

ENG 122 (3) and ENG 201 (3) OR

another GT-CO3 course

Oral Communication

(3 semester credits)

COM 115 (3) COM 125 (3) COM 220* (3)

*COM 220 (GT-SS3) may fulfill the Communication OR Social and Behavioral Sciences requirement, but not both.

Note: Completing COM courses is a Colorado Community College System requirement, not a gtPATHWAYS requirement.

Mathematics

(GT-MA1) (3 semester credits)

Credits over 3 will be applied to elective category.

MAT 121 (4) MAT 122 (3) MAT 166 (5)

MAT 201 (5) MAT 202 (5) MAT 203 (4)

MAT 204 (5) MAT 265 (3)

Natural & Physical Sciences

(GT-SC1) (12 semester credits)

Take one pair of GT-SC1 lab courses in sequence and an additional GT-SC1 guaranteed transfer lab science course.

Credits over 12 will be applied to elective category.

GT-SC1 Sequenced Lab Courses (take one pair):

AST 101 (4) AST 102 (4)

BIO 111 (5) BIO 112 (5)

BIO 201 (4) BIO 202 (4)

CHE 111 (5) CHE 112 (5)

GEO 111 (4) GEO 112 (4)

GEY 111 (4) GEY 112 (4)

PHY 111 (5) PHY 112 (5)

PHY 211 (5) PHY 212 (5)

Additional GT-SC1 Guaranteed Transfer Lab Science Courses (take one course):

AGY 240 (4) AST 101 (4) AST 102 (4)

BIO 105 (4) BIO 111 (5) BIO 112 (5)

BIO 201 (4) BIO 202 (4) BIO 204 (4)

BIO 208 (5) BIO 221 (5) CHE 101 (5)

CHE 102 (5) CHE 105 (5) CHE 111 (5)

CHE 112 (5) ENV 101 (4) GEO 111 (4)

GEO 112 (4) GEY 111 (4) GEY 112 (4)

GEY 135 (4) MET 150 (4) PHY 105 (4)

PHY 107 (4) PHY 111 (5) PHY 112 (5)

PHY 211 (5) PHY 212 (5)

Arts & Humanities, History, and Social & Behavioral Sciences

(15 credits total)

Arts & Humanities

(6 semester credits)

From two different areas (GT-AH1, GT-AH2, GT-AH3, or GT-AH4)

Arts (GT-AH1)

ART 110 (3) ART 111 (3) ART 112 (3)

ART 207 (3) DAN 125 (3) MUS 120 (3)

MUS 121 (3) MUS 122 (3) MUS 123 (3)

MUS 125 (3) THE 105 (3) THE 211 (3)

THE 212 (3)

Literature & Humanities (GT-AH2)

HUM 115 (3) HUM 121 (3) HUM 122 (3)

HUM 123 (3) LIT 115 (3) LIT 201 (3)

LIT 202 (3) LIT 205 (3) LIT 211 (3)

LIT 212 (3) LIT 221 (3) LIT 222 (3)

LIT 225 (3) LIT 259 (3) LIT 268 (3)

Ways of Thinking (GT-AH3)

PHI 111 (3) PHI 112 (3) PHI 113 (3)

PHI 114 (3) PHI 214 (3) PHI 218 (3)

PHI 220 (3)

Foreign Languages (GT-AH4)

FRE 211 (3) FRE 212 (3) GER 211 (3)

GER 212 (3) ITA 211 (3) ITA 212 (3)

JPN 211 (3) JPN 212 (3) RUS 211 (3)

RUS 212 (3) SPA 211 (3) SPA 212 (3)

History

(3 semester credits) Take one course.

History (GT-HI1)

HIS 101 (3) HIS 102 (3) HIS 111 (3)

HIS 112 (3) HIS 201 (3) HIS 202 (3)

HIS 207 (3) HIS 208 (3) HIS 215 (3)

HIS 225 (3) HIS 236 (3) HIS 243 (3)

- | | | |
|--------------------------------------|--------------------------------------|--------------------------------------|
| <input type="checkbox"/> HIS 244 (3) | <input type="checkbox"/> HIS 245 (3) | <input type="checkbox"/> HIS 247 (3) |
| <input type="checkbox"/> HIS 249 (3) | <input type="checkbox"/> HIS 255 (3) | <input type="checkbox"/> HIS 260 (3) |

Social & Behavioral Sciences

(6 semester credits) From two different areas (GT-HI1, GT-SS1, GT-SS2, GT-SS3)

History (GT-HI1)

- | | | |
|--------------------------------------|--------------------------------------|--------------------------------------|
| <input type="checkbox"/> HIS 101 (3) | <input type="checkbox"/> HIS 102 (3) | <input type="checkbox"/> HIS 111 (3) |
| <input type="checkbox"/> HIS 112 (3) | <input type="checkbox"/> HIS 201 (3) | <input type="checkbox"/> HIS 202 (3) |
| <input type="checkbox"/> HIS 207 (3) | <input type="checkbox"/> HIS 208 (3) | <input type="checkbox"/> HIS 215 (3) |
| <input type="checkbox"/> HIS 225 (3) | <input type="checkbox"/> HIS 236 (3) | <input type="checkbox"/> HIS 243 (3) |
| <input type="checkbox"/> HIS 244 (3) | <input type="checkbox"/> HIS 245 (3) | <input type="checkbox"/> HIS 247 (3) |
| <input type="checkbox"/> HIS 249 (3) | <input type="checkbox"/> HIS 255 (3) | <input type="checkbox"/> HIS 260 (3) |

Economics & Political Systems (GT-SS1)

- | | | |
|--------------------------------------|--------------------------------------|--------------------------------------|
| <input type="checkbox"/> ECO 101 (3) | <input type="checkbox"/> ECO 201 (3) | <input type="checkbox"/> ECO 202 (3) |
| <input type="checkbox"/> ECO 245 (3) | <input type="checkbox"/> POS 105 (3) | <input type="checkbox"/> POS 111 (3) |
| <input type="checkbox"/> POS 125 (3) | <input type="checkbox"/> POS 205 (3) | <input type="checkbox"/> POS 215 (3) |
| <input type="checkbox"/> POS 225 (3) | | |

Geography (GT-SS2)

- | | |
|--------------------------------------|--------------------------------------|
| <input type="checkbox"/> GEO 105 (3) | <input type="checkbox"/> GEO 106 (3) |
|--------------------------------------|--------------------------------------|

Human Behavior, Culture or Social Frameworks (GT-SS3)

- | | | |
|--------------------------------------|--------------------------------------|--------------------------------------|
| <input type="checkbox"/> ANT 101 (3) | <input type="checkbox"/> ANT 102 (1) | <input type="checkbox"/> ANT 103 (1) |
| <input type="checkbox"/> ANT 104 (1) | <input type="checkbox"/> ANT 107 (3) | <input type="checkbox"/> ANT 111 (3) |
| <input type="checkbox"/> ANT 201 (3) | <input type="checkbox"/> ANT 215 (3) | |
| <input type="checkbox"/> ANT 250 (3) | <input type="checkbox"/> COM 220 (3) | <input type="checkbox"/> ETH 200 (3) |
| <input type="checkbox"/> JOU 105 (3) | <input type="checkbox"/> PSY 101 (3) | <input type="checkbox"/> PSY 102 (3) |
| <input type="checkbox"/> PSY 205 (3) | <input type="checkbox"/> PSY 217 (3) | <input type="checkbox"/> PSY 226 (3) |
| <input type="checkbox"/> PSY 227 (3) | <input type="checkbox"/> PSY 235 (3) | <input type="checkbox"/> PSY 238 (3) |
| <input type="checkbox"/> PSY 249 (3) | <input type="checkbox"/> SOC 101 (3) | <input type="checkbox"/> SOC 102 (3) |
| <input type="checkbox"/> SOC 205 (3) | <input type="checkbox"/> SOC 207 (3) | <input type="checkbox"/> SOC 215 (3) |
| <input type="checkbox"/> SOC 216 (3) | <input type="checkbox"/> SOC 218 (3) | <input type="checkbox"/> SOC 220 (3) |
| <input type="checkbox"/> SOC 231 (3) | <input type="checkbox"/> SOC 237 (3) | <input type="checkbox"/> WST 200 (3) |
| <input type="checkbox"/> WST 225 (3) | <input type="checkbox"/> WST 240 (3) | <input type="checkbox"/> WST 249 (3) |

Science & Math Electives

(18 semester credits)

A minimum of 18 semester credits of electives must be selected from the approved math and science electives course list (see below). Select these courses with your advisor to better fit the requirements of your anticipated major at your transfer college or university.

- _____
- _____
- _____
- _____
- _____
- _____

Approved Science & Math Electives List

- | | |
|-----|---|
| AGY | 240 |
| AST | All AST courses in this catalog |
| BIO | 105, 106, 111, 112, 115, 160, 201, 202, 204, 208, 216, 221, 222 |
| CHE | All CHE courses in this catalog |
| CSC | All CSC courses in this catalog |

- | | |
|-----|------------------------------------|
| ENV | 101 |
| GEO | 111, 112 |
| GEY | All GEY courses in this catalog |
| MAT | 120 or above (except MAT 155, 156) |
| MET | All MET courses in this catalog |
| PHY | All PHY courses in this catalog |

Note: This list applies only to courses shown in the FRCC catalog, and to transfer credit which is equivalent to FRCC Catalog courses. Transfer courses which are identified with "999" course numbers (with the exception of Career Technical Electives) are also approved as elective credit.

Additional General Electives

(Up to 3 semester credits)

Additional elective credits selected from the Approved General Electives List (see below).

- _____
- _____
- _____
- _____

General elective credit from the Associate of Science degree must be completed from the list of Approved General Electives. While some of the following courses may be considered generally transferable, a student's major at a four-year college or university may limit what credit will be accepted and applied toward degree requirements at that institution. Selection of elective credits and course sequencing should be done in consultation with an advisor and the four-year institution to which you intend to transfer.

TOTAL (60 semester credits required)

IMPORTANT

- ◆ This degree worksheet is subject to change. Please work closely with an advisor to create your academic plan and ensure a successful experience at FRCC.
- ◆ To check your degree status, go to your eWOLF account, click on Degree Check, and review your progress toward your degree.
- ◆ An absence of 12 months constitutes a break in enrollment and invalidates this review and possibly this plan of study.

ADDITIONAL GRADUATION REQUIREMENTS FOR ASSOCIATE OF SCIENCE DEGREE

- ◆ No developmental courses may be applied to this degree.
- ◆ No more than 6 semester credits in independent study or internships in the prefixes following may be applied to this degree.
- ◆ Minimum Grade Point Average 2.0; only grades of "C" or above may be applied to this degree.
- ◆ Minimum 15 degree-applicable semester credits must be completed at FRCC.
- ◆ Submit graduation application, transfer credits, and credit for prior learning to Admissions & Records by deadline and complete CAAP exam (see Class Schedule for dates).
- ◆ Continuing students who have not had a 12-month lapse in enrollment will be allowed to use the requirements listed in any catalog published while continuously attending the college.

COLORADO GUARANTEED TRANSFER PROGRAM FOR GENERAL EDUCATION (gtPATHWAYS)

After starting on your higher education pathway at any public college or university in Colorado, and, upon acceptance to

another, you can transfer up to **31 credits** of successfully (C- or above) completed gtPATHWAYS (general education) coursework. These courses are guaranteed to transfer with you and count toward your general education core or graduation requirements for most, but not all, associate's or bachelor's degree programs. If you completed a course before it became effective as a gtPATHWAYS course, the institution to which you transfer has the option to accept it or not accept it. For more information and the most updated list of gtPATHWAYS courses, including dates when individual courses became effective, visit

<http://higher.ed.colorado.gov/Academics/Transfers/gtPathways/curriculum.html>. Guaranteed transfer courses that are not offered by FRCC, but are taken at other Colorado institutions, may apply to the appropriate GT category under Required General Education Courses.

If you complete an Associate of Arts or Associate of Science degree, 60 credits are guaranteed to transfer to a four-year school, once you are accepted for admission. You should be able to finish a bachelor's degree within another 60 credits. This is called a 60+60 transfer plan. Please note that some majors at the four-year schools require specific courses that must be completed as part of the A.A. or A.S. degree. Note also that some majors may exceed the typical 120 credits required to graduate. For more information on Colorado's 60+60 program, including transfer guides and a list of applicable degrees, visit

<http://higher.ed.colorado.gov/Academics/Transfers/gtPathways/default.html>.

Additional notes regarding transfer:

Transferring credit to FRCC: Transfer courses will be evaluated for FRCC course equivalency and applied to degree requirements according to state and college policy. Completion of FRCC equivalent guaranteed transfer (gt) course requirements from any regionally accredited institution will meet FRCC degree requirements.

Credit for Prior Learning: Credit earned through prior learning methodologies (including CLEP, Advanced Placement, International Baccalaureate, articulation, military, corporate, challenge exam, portfolio credit, correspondence courses, or independent study) may meet FRCC degree requirements. A student who is awarded credit using standardized credit for prior learning assessments may be granted a degree with designation & a gt Pathways notation on their CCCS transcript. The receiving Colorado public institution will be obligated to honor the promise that completion of the AA/AS with designation and/or gt Pathway curriculum fulfills the lower division requirements as defined by the statewide articulation agreement. The receiving institution will evaluate those credits according to its standard policy. Students who wish to use credits awarded by exam to fulfill specific course requirements are responsible for consulting with the institution to which they are considering transferring to determine whether the credits they have been awarded by exam meet the standards of the receiving institution for specific course equivalents.

Generally, credits accepted in transfer will be less than 10 years old, though all credit which is not outdated or obsolete, and is applicable to the student's degree program, may be accepted. The final determination of acceptance of credit based on content and age of the credit is made by the appropriate college instructional department and

instructional dean.

APPROVED GENERAL ELECTIVES LIST

ACC	101, 121, 122
AGY	240
AIR	All AIR courses in this catalog
ANT	All ANT courses in this catalog
ARA	All ARA courses in this catalog
ARM	All ARM courses in this catalog
ART	All ART courses in this catalog
ASL	121, 122, 123, 221, 222
AST	All AST courses in this catalog
BIO	105, 106, 111, 112, 115, 160, 201, 202, 204, 208, 216, 221, 222
BUS	115, 203, 216, 217, 226
CHE	All CHE courses in this catalog
CHI	All CHI courses in this catalog
CIS	115, 118
COM	All COM courses in this catalog
CRJ	110, 111, 112, 125, 127, 135, 145, 205, 209, 210, 220, 230, 235, 236, 257
CSC	All CSC courses in this catalog
DAN	All DAN courses in this catalog (Max. of 3 credits OUT, PED & DAN permitted for degree in addition to DAN 125 (Arts & Humanities))
ECO	All ECO courses in this catalog
ENG	121 and above
ENV	101
ETH	All ETH courses in this catalog
FRE	All FRE courses in this catalog
GEO	All GEO courses in this catalog
GER	All GER courses in this catalog
GEY	All GEY courses in this catalog
HIS	All HIS courses in this catalog
HUM	All HUM courses in this catalog
HWE	100, 103, 110, 124
ITA	All ITA courses in this catalog
JOU	All JOU courses in this catalog
JPN	All JPN courses in this catalog
LIT	All LIT courses in this catalog
MAN	226
MAR	216, 220
MAT	120 or above (except MAT 155 & 156)
MET	All MET courses in this catalog
MGD	133, 221, 222, 233
MUS	All MUS courses in this catalog
OUT	All OUT courses in this catalog (Max. of 3 credits OUT, PED & DAN permitted for degree in addition to DAN 125 (Arts & Humanities))
PED	All PED courses in this catalog (Max. of 3 credits OUT, PED & DAN permitted for degree in addition to DAN 125 (Arts & Humanities))
PHI	All PHI courses in this catalog

PHY	All PHY courses in this catalog
POS	All POS courses in this catalog
PSY	All PSY courses in this catalog
RUS	All RUS courses in this catalog
SOC	All SOC courses in this catalog
SPA	All SPA courses in this catalog
THE	All THE courses in this catalog
WST	All WST courses in this catalog
GT	All Guaranteed Transfer courses in this catalog

Note: This list applies only to courses shown in the FRCC catalog, and to transfer credit which is equivalent to FRCC Catalog courses. Transfer courses which are identified with "999" course numbers (with the exception of Career Technical Electives) are also approved as elective credit.

Associate Degrees with Designations

The following degrees provide transfer pathways to Colorado state four-year colleges and universities in specified liberal arts and science designations. It is recommended that you check with the four-year school to which you are planning to transfer after completing an Associate degree regarding the applicable pathway for the academic program you plan to matriculate into. These degrees with designation replace all previously existing statewide transfer agreements for these programs of study.

- Anthropology - Associate of Arts
- Business - Associate of Arts
- Criminal Justice - Associate of Arts
- Economics - Associate of Arts
- French - Associate of Arts
- History - Associate of Arts
- Mathematics - Associate of Science
- Political Science - Associate of Arts
- Psychology - Associate of Arts
- Psychology - Associate of Science
- Sociology - Associate of Arts
- Spanish - Associate of Arts

The following articulation agreements are offered by FRCC:

- Early Childhood Education - Associate of Arts
- Elementary Education - Associate of Arts

Advising Sheet: Associate of Arts Degree, Designation in Anthropology for Transfer

Unofficial Degree Check Catalog Year: 2013-2014

Student Name: _____

Date: _____

Transferring credit into this institution may impact degree completion eligibility. Please see an advisor.

Required General Education Courses:

Guaranteed transfer courses that are not offered by FRCC, but are taken at other Colorado institutions, may apply to the appropriate GT category under Required General Education

Courses. Completing COM courses is a Colorado Community College System requirement, not a gtPATHWAYS requirement.

Communication

(GT-CO1, GT-CO2, GT-CO3) (6 semester credits) Take one pair of courses.

- ENG 121 (3) and ENG 122 (3) OR
- ENG 122 (3) and ENG 201 (3) OR another GT-CO3 course

Mathematics

(GT-MA1) (4 semester credits)

- MAT 121 (4)

Note: 3 transfer credits WILL NOT fulfill this requirement.

Natural & Physical Sciences

(GT-SC1) (8 semester credits) Take two courses.

Credits over 8 will be applied to elective category.

- AGY 240 (4) AST 101 (4) AST 102 (4)
- BIO 105 (4) BIO 111 (5) BIO 112 (5)
- BIO 201 (4) BIO 202 (4) BIO 204 (4)
- BIO 208 (5) BIO 221 (5)
- CHE 101 (5) CHE 102 (5) CHE 105 (5)
- CHE 111 (5) CHE 112 (5) ENV 101 (4)
- GEO 111 (4) GEO 112 (4) GEY 111 (4)
- GEY 112 (4) GEY 135 (4)
- MET 150 (4) PHY 105 (4) PHY 107 (4)
- PHY 111 (5) PHY 112 (5) PHY 211 (5)
- PHY 212 (5) SCI 155 (4) SCI 156 (4)

Arts & Humanities, History, and Social & Behavioral Sciences

(18 semester credits)

Arts & Humanities

(9 semester credits)

Take nine credits from any of the four GT Arts & Humanities categories (GT-AH1, GT-AH2, GT-AH3, or GT-AH4)

Arts (GT-AH1)

- ART 110 (3) ART 111 (3) ART 112 (3)
- ART 207 (3) DAN 125 (3) MUS 120 (3)
- MUS 121 (3) MUS 122 (3) MUS 123 (3)
- MUS 125 (3) THE 105 (3) THE 211 (3)
- THE 212 (3)

Literature & Humanities (GT-AH2)

- HUM 115 (3) HUM 121 (3) HUM 122 (3)
- HUM 123 (3) LIT 115 (3) LIT 201 (3)
- LIT 202 (3) LIT 205 (3) LIT 211 (3)
- LIT 212 (3) LIT 221 (3) LIT 222 (3)
- LIT 225 (3) LIT 259 (3) LIT 268 (3)

Ways of Thinking (GT-AH3)

- PHI 111 (3) PHI 112 (3) PHI 113 (3)
- PHI 114 (3) PHI 214 (3) PHI 218 (3)
- PHI 220 (3)

Foreign Languages (GT-AH4)

<input type="checkbox"/> FRE 211 (3)	<input type="checkbox"/> FRE 212 (3)	<input type="checkbox"/> GER 211 (3)
<input type="checkbox"/> GER 212 (3)	<input type="checkbox"/> ITA 211 (3)	<input type="checkbox"/> ITA 212 (3)
<input type="checkbox"/> JPN 211 (3)	<input type="checkbox"/> JPN 212 (3)	<input type="checkbox"/> RUS 211 (3)
<input type="checkbox"/> RUS 212 (3)	<input type="checkbox"/> SPA 211 (3)	<input type="checkbox"/> SPA 212 (3)

History

(3 semester credits) Take one course.

History (GT-HI1)

<input type="checkbox"/> HIS 101 (3)	<input type="checkbox"/> HIS 102 (3)	<input type="checkbox"/> HIS 111 (3)
<input type="checkbox"/> HIS 112 (3)	<input type="checkbox"/> HIS 201 (3)	<input type="checkbox"/> HIS 202 (3)
<input type="checkbox"/> HIS 207 (3)	<input type="checkbox"/> HIS 208 (3)	<input type="checkbox"/> HIS 215 (3)
<input type="checkbox"/> HIS 225 (3)	<input type="checkbox"/> HIS 236 (3)	<input type="checkbox"/> HIS 243 (3)
<input type="checkbox"/> HIS 244 (3)	<input type="checkbox"/> HIS 245 (3)	<input type="checkbox"/> HIS 247 (3)
<input type="checkbox"/> HIS 249 (3)	<input type="checkbox"/> HIS 255 (3)	<input type="checkbox"/> HIS 260 (3)

Social & Behavioral Sciences

(6 semester credits) Take any two courses from any of the three GT Social & Behavioral Sciences categories (GT-SS1, GT-SS2, GT-SS3).

Economics & Political Systems (GT-SS1)

<input type="checkbox"/> ECO 101 (3)	<input type="checkbox"/> ECO 201 (3)	<input type="checkbox"/> ECO 202 (3)
<input type="checkbox"/> ECO 245 (3)	<input type="checkbox"/> POS 105 (3)	<input type="checkbox"/> POS 111 (3)
<input type="checkbox"/> POS 125 (3)	<input type="checkbox"/> POS 205 (3)	<input type="checkbox"/> POS 215 (3)
<input type="checkbox"/> POS 225 (3)		

Geography (GT-SS2)

<input type="checkbox"/> GEO 105 (3)	<input type="checkbox"/> GEO 106 (3)
--------------------------------------	--------------------------------------

Human Behavior, Culture, or Social Frameworks (GT-SS3)

<input type="checkbox"/> ANT 102 (1)	<input type="checkbox"/> ANT 103 (1)	<input type="checkbox"/> ANT 104 (1)
<input type="checkbox"/> ANT 201 (3)	<input type="checkbox"/> ANT 215 (3)	<input type="checkbox"/> ANT 250 (3)
<input type="checkbox"/> COM 220 (3)	<input type="checkbox"/> ETH 200 (3)	<input type="checkbox"/> JOU 105 (3)
<input type="checkbox"/> PSY 101 (3)	<input type="checkbox"/> PSY 102 (3)	<input type="checkbox"/> PSY 205 (3)
<input type="checkbox"/> PSY 217 (3)	<input type="checkbox"/> PSY 226 (3)	<input type="checkbox"/> PSY 227 (3)
<input type="checkbox"/> PSY 235 (3)	<input type="checkbox"/> PSY 238 (3)	<input type="checkbox"/> PSY 249 (3)
<input type="checkbox"/> SOC 101 (3)	<input type="checkbox"/> SOC 102 (3)	<input type="checkbox"/> SOC 205 (3)
<input type="checkbox"/> SOC 207 (3)	<input type="checkbox"/> SOC 215 (3)	<input type="checkbox"/> SOC 216 (3)
<input type="checkbox"/> SOC 218 (3)	<input type="checkbox"/> SOC 220 (3)	<input type="checkbox"/> SOC 231 (3)
<input type="checkbox"/> SOC 237 (3)	<input type="checkbox"/> WST 200 (3)	<input type="checkbox"/> WST 225 (3)
<input type="checkbox"/> WST 240 (3)	<input type="checkbox"/> WST 249 (3)	

SUBTOTAL: (36 semester credits required)

Note: Additional Anthropology (ANT) courses beyond the 4 courses (12 semester credit hours) identified below MAY NOT count toward the ANT major at the receiving 4-year institution.

Additional Required Courses (18 semester credits) Take six courses.

- COM 115 (3) **OR** COM 125 (3) **OR** COM 220 (3)
 ANT 101 (3)
 ANT 107 (3)
 ANT 111 (3)* Note: *Some receiving institutions require a lab attached to this course. Please consult with the receiving institution.
 _____ One additional GT ANT (3) course (GT-SS3)

_____ One additional GT Social & Behavioral Science Course.* Note: *Must be (GT-SS2) or (GT-SS3)

Additional Electives (6 semester credits)

Additional 6 semester credits of electives selected from the following Approved Electives List. Selection of elective credits should be done in consultation with an advisor and the four-year institution to which you intend to transfer.

- _____

TOTAL (60 semester credits required)

IMPORTANT

- ♦ This degree worksheet is subject to change. Please work closely with an advisor to create your academic plan and ensure a successful experience at FRCC.
- ♦ To check your degree status, go to your eWOLF account, click on Degree Check, and review your progress toward your degree.
- ♦ An absence of 12 months constitutes a break in enrollment and invalidates this review and possibly this plan of study.

ADDITIONAL GRADUATION REQUIREMENTS FOR ASSOCIATE OF ARTS DEGREE

- ♦ No developmental courses may be applied to this degree.
- ♦ No more than 6 semester credits in independent study or internships in the prefixes following may be applied to this degree.
- ♦ Minimum Grade Point Average 2.0; only grades of "C" or above may be applied to this degree.
- ♦ Minimum 15 degree-applicable semester credits must be completed at FRCC.
- ♦ Submit graduation application, transfer credits, and credit for prior learning to Admissions & Records by published deadline and complete CAAP exam (see Class Schedule for dates).
- ♦ Continuing students who have not had a 12-month lapse in enrollment will be allowed to use the requirements listed in any catalog published while continuously attending the college.

STATEWIDE ANTHROPOLOGY TRANSFER ARTICULATION AGREEMENT

The Statewide Anthropology Transfer Articulation Agreement ensures that a student who begins an Associate of Arts degree at a Colorado community college will transfer 60 credits into the Bachelor of Arts in Anthropology degree program at a Colorado public four-year college (i.e., 60+60 agreement). The following four-year schools participate in this agreement:

- ♦ Colorado State University-Fort Collins
- ♦ Fort Lewis College
- ♦ Metropolitan State University of Denver
- ♦ University of Colorado at Boulder
- ♦ University of Colorado at Colorado Springs
- ♦ University of Colorado Denver
- ♦ University of Northern Colorado
- ♦ Western State Colorado University

Completion of the curriculum prescribed within this statewide articulation agreement does not guarantee admission to a participating receiving institution. Students must meet all admission and application requirements at the receiving institution including the submission of all required

documentation by stated deadlines. Please note: students transferring to a University of Colorado institution (Boulder, Colorado Springs, Denver) must satisfy the CU System's MAPS (Minimum Academic Preparation Standards) requirement.

Only courses with grades of C- or above are guaranteed to transfer.

Admission to a receiving institution does not guarantee enrollment in a specific degree program. Some programs of receiving institutions have controlled entry due either to space limitations or academic requirements.

The credit and course transfer guarantees described in this agreement apply to the specific degree program covered by this agreement. The receiving institution will accept all applicable credits earned within ten years of transfer to the receiving institution. Credits earned more than ten years earlier will be evaluated on a course-by-course basis.

Because of the limitations just listed, students must consult with the Office of Admissions at the institution to which they are considering transferring.

COLORADO GUARANTEED TRANSFER PROGRAM FOR GENERAL EDUCATION (gtPATHWAYS)

After starting on your higher education pathway at any public college or university in Colorado, and, upon acceptance to another, you can transfer up to **31 credits** of successfully (C- or above) completed gtPATHWAYS (general education) coursework. These courses are guaranteed to transfer with you and count toward your general education core or graduation requirements for most, but not all, associate's or bachelor's degree programs. If you completed a course before it became effective as a gtPATHWAYS course, the institution to which you transfer has the option to accept it or not accept it. For more information and the most updated list of gtPATHWAYS courses, including dates when individual courses became effective, visit <http://higher.ed.colorado.gov/Academics/Transfers/gtPathways/curriculum.html>. Guaranteed transfer courses that are not offered by FRCC, but are taken at other Colorado institutions, may apply to the appropriate GT category under Required General Education Courses.

If you complete an Associate of Arts or Associate of Science degree, 60 credits are guaranteed to transfer to a four-year school, once you are accepted for admission. You should be able to finish a bachelor's degree within another 60 credits. This is called a 60+60 transfer plan. Please note that some majors at the four-year schools require specific courses that must be completed as part of the A.A. or A.S. degree. Note also that some majors may exceed the typical 120 credits required to graduate. For more information on Colorado's 60+60 program, including transfer guides and a list of applicable degrees, visit <http://higher.ed.colorado.gov/Academics/Transfers/gtPathways/default.html>.

Additional notes regarding transfer:

Transferring credit to FRCC: Transfer courses will be evaluated for FRCC course equivalency and applied to degree requirements according to state and college policy. Completion of FRCC equivalent guaranteed transfer (gt) course requirements from any regionally accredited institution will meet FRCC degree requirements.

Credit for Prior Learning: Credit earned through prior learning methodologies (including CLEP, Advanced Placement, International Baccalaureate, articulation, military, corporate, challenge exam, portfolio credit, correspondence courses, or independent study) may meet FRCC degree requirements. A student who is awarded credit using standardized credit for prior learning assessments may be granted a degree with designation & a gt Pathways notation on their CCCS transcript. The receiving Colorado public institution will be obligated to honor the promise that completion of the AA/AS with designation and/or gt Pathway curriculum fulfills the lower division requirements as defined by the statewide articulation agreement. The receiving institution will evaluate those credits according to its standard policy. Students who wish to use credits awarded by exam to fulfill specific course requirements are responsible for consulting with the institution to which they are considering transferring to determine whether the credits they have been awarded by exam meet the standards of the receiving institution for specific course equivalents.

APPROVED ELECTIVE LIST FOR ASSOCIATE OF ARTS DEGREE

Elective credit for the Associate of Arts degree must be completed from the following list of approved prefixes and courses. While some of the following courses may be considered generally transferable, a student's major at a four-year college or university may limit what credit will be accepted and applied toward degree requirements at that institution. Selection of elective credits and course sequencing should be done in consultation with an advisor and the four-year institution to which you intend to transfer.

ACC	101, 121, 122
AGY	240
AIR	All AIR courses in this catalog
ANT	All ANT courses in this catalog
ARA	All ARA courses in this catalog
ARM	All ARM courses in this catalog
ART	All ART courses in this catalog
ASL	121, 122, 123, 221, 222
AST	All AST courses in this catalog
BIO	105, 106, 111, 112, 115, 160, 201, 202, 204, 208, 216, 221, 222
BUS	115, 203, 216, 217, 226
CHE	All CHE courses in this catalog
CHI	All CHI courses in this catalog
CIS	115, 118
COM	All COM courses in this catalog
CRJ	110, 111, 112, 125, 127, 135, 145, 205, 209, 210, 220, 230, 235, 236, 257
CSC	All CSC courses in this catalog
DAN	All DAN courses in this catalog
<i>Note: DAN, OUT, & PED combined up to 3 credits cumulative. DAN 125 may be applied as an arts and humanities elective rather than a physical activities course.</i>	
ECO	All ECO courses in this catalog
ENG	121 and above
ENV	101

ETH	All ETH courses in this catalog
FRE	All FRE courses in this catalog
GEO	All GEO courses in this catalog
GER	All GER courses in this catalog
GEY	All GEY courses in this catalog
HIS	All HIS courses in this catalog
HUM	All HUM courses in this catalog
HWE	100, 103, 110, 124
ITA	All ITA courses in this catalog
JOU	All JOU courses in this catalog
JPN	All JPN courses in this catalog
LIT	All LIT courses in this catalog
MAN	226
MAR	216, 220
MAT	120 or above
MET	All MET courses in this catalog
MGD	133, 221, 222, 233
MUS	All MUS courses in this catalog
OUT	All OUT courses in this catalog <i>Note: DAN, OUT, & PED combined up to 3 credits cumulative.</i>
PED	All PED courses in this catalog <i>Note: DAN, OUT & PED combined up to 3 credits cumulative.</i>
PHI	All PHI courses in this catalog
PHY	All PHY courses in this catalog
POS	All POS courses in this catalog
PSY	All PSY courses in this catalog
RUS	All RUS courses in this catalog
SCI	All SCI courses in this catalog
SOC	All SOC courses in this catalog
SPA	All SPA courses in this catalog
THE	All THE courses in this catalog
WST	All WST courses in this catalog
GT	All Guaranteed Transfer courses in this catalog

Note: This list applies only to courses shown in the FRCC catalog, and to transfer credit which is equivalent to FRCC Catalog courses. Transfer courses which are identified with "999" course numbers (with the exception of Career Technical Electives) are also approved as elective credit.

Advising Sheet: Associate of Arts Degree, Designation in Business for Transfer

Unofficial Degree Check Catalog Year: 2013-2014

Student Name: _____

Date: _____

Transferring credit into this institution may impact degree completion eligibility. Please see an advisor.

Required General Education Courses:

Guaranteed transfer courses that are not offered by FRCC, but are taken at other Colorado institutions, may apply to the

appropriate GT category under Required General Education Courses. Completing COM courses is a Colorado Community College System requirement, not a gtPATHWAYS requirement.

Communication

(GT-CO1, GT-CO2) (6 semester credits) Take both courses.

ENG 121 (3) and ENG 122 (3)

Mathematics

(GT-MA1) (8 semester credits) Take two courses.

Students may choose between MAT 121 and MAT 123 and must take MAT 125 or a higher calculus course to fulfill the 8 required credits in this category.

MAT 121 (4) OR MAT 123 (4)

AND

MAT 125 (4)

OR one of the following:

MAT 201 (5) MAT 202 (5) MAT 203 (4)

MAT 204 (5)

Natural & Physical Sciences

(GT-SC1, GT-SC2) (8 semester credits) Take two courses.

AGY 240 (4) AST 101 (4) AST 102 (4)

BIO 105 (4) BIO 111 (5) BIO 112 (5)

BIO 201 (4) BIO 202 (4) BIO 204 (4)

BIO 208 (5) BIO 221 (5)

CHE 101 (5) CHE 102 (5) CHE 105 (5)

CHE 111 (5) CHE 112 (5) ENV 101 (4)

GEO 111 (4) GEO 112 (4) GEY 111 (4)

GEY 112 (4) GEY 135 (4) MET 150 (4)

PHY 105 (4) PHY 107 (4)

PHY 111 (5) PHY 112 (5) PHY 211 (5)

PHY 212 (5) SCI 155 (4) SCI 156 (4)

Arts & Humanities, History, and Social & Behavioral Sciences

Arts & Humanities

(6 semester credits)

Take six credits from any of the four GT Arts & Humanities categories (GT-AH1, GT-AH2, GT-AH3, or GT-AH4)

Arts (GT-AH1)

ART 110 (3) ART 111 (3) ART 112 (3)

ART 207 (3) DAN 125 (3) MUS 120 (3)

MUS 121 (3) MUS 122 (3) MUS 123 (3)

MUS 125 (3) THE 105 (3) THE 211 (3)

THE 212 (3)

Literature & Humanities (GT-AH2)

HUM 115 (3) HUM 121 (3) HUM 122 (3)

HUM 123 (3) LIT 115 (3) LIT 201 (3)

LIT 202 (3) LIT 205 (3) LIT 211 (3)

LIT 212 (3) LIT 221 (3) LIT 222 (3)

LIT 225 (3) LIT 259 (3) LIT 268 (3)

Ways of Thinking (GT-AH3)

PHI 111 (3) PHI 112 (3) PHI 113 (3)

PHI 114 (3) PHI 214 (3) PHI 218 (3)

PHI 220 (3)

Foreign Languages (GT-AH4)

FRE 211 (3) FRE 212 (3) GER 211 (3)

GER 212 (3) ITA 211 (3) ITA 212 (3)

JPN 211 (3) JPN 212 (3) RUS 211 (3)

RUS 212 (3) SPA 211 (3) SPA 212 (3)

History

(3 semester credits) Take one course.

History (GT-HI1)

HIS 101 (3) HIS 102 (3) HIS 111 (3)

HIS 112 (3) HIS 201 (3) HIS 202 (3)

HIS 207 (3) HIS 208 (3) HIS 215 (3)

HIS 225 (3) HIS 236 (3) HIS 243 (3)

HIS 244 (3) HIS 245 (3) HIS 247 (3)

HIS 249 (3) HIS 255 (3) HIS 260 (3)

Social & Behavioral Sciences

(6 semester credits) Take both Economics courses.

Economics & Political Systems (GT-SS1)

ECO 201 (3) ECO 202 (3)

SUBTOTAL: (37 semester credits required)

Additional Required Courses (23 semester credits)

All courses below are required.

ACC 121 (4) ACC 122 (4) BUS 115 (3)

BUS 216 (3) BUS 217 (3) BUS 226 (3)

COM 115 (3)

TOTAL (60 semester credits required)

IMPORTANT

- ◆ This degree worksheet is subject to change. Please work closely with an advisor to create your academic plan and ensure a successful experience at FRCC.
- ◆ To check your degree status, go to your eWOLF account, click on Degree Check, and review your progress toward your degree.
- ◆ An absence of 12 months constitutes a break in enrollment and invalidates this review and possibly this plan of study.

ADDITIONAL GRADUATION REQUIREMENTS FOR ASSOCIATE OF ARTS DEGREE

- ◆ No developmental courses may be applied to this degree.
- ◆ No more than 6 semester credits in independent study or internships in the prefixes following may be applied to this degree.
- ◆ Minimum Grade Point Average 2.0; only grades of "C" or above may be applied to this degree.
- ◆ Minimum 15 degree-applicable semester credits must be completed at FRCC.
- ◆ Submit graduation application, transfer credits, and credit for prior learning to Admissions & Records by deadline and complete CAAP exam (see Class Schedule for dates).
- ◆ Continuing students who have not had a 12-month lapse in enrollment will be allowed to use the requirements listed in any catalog published while continuously attending the college.

STATEWIDE BUSINESS TRANSFER ARTICULATION

AGREEMENT

The Statewide Business Transfer Articulation Agreement ensures that a student who begins an Associate of Arts degree at a Colorado community college will transfer 60 credits into the Bachelor of Arts in Business degree program at a Colorado public four-year college (i.e., 60+60 agreement). The following four-year schools participate in this agreement:

- ◆ Adams State University
- ◆ Colorado Mesa University
- ◆ Colorado State University-Fort Collins
- ◆ Colorado State University-Pueblo
- ◆ Fort Lewis College
- ◆ Metropolitan State University of Denver
- ◆ University of Colorado at Boulder
- ◆ University of Colorado at Colorado Springs
- ◆ University of Colorado Denver
- ◆ University of Northern Colorado
- ◆ Western State Colorado University

Completion of the curriculum prescribed within this statewide articulation agreement does not guarantee admission to a participating receiving institution. Students must meet all admission and application requirements at the receiving institution including the submission of all required documentation by stated deadlines. Please note: students transferring to a University of Colorado institution (Boulder, Colorado Springs, Denver) must satisfy the CU System's MAPS (Minimum Academic Preparation Standards) requirement.

Only courses with grades of C- or above are guaranteed to transfer.

Admission to a receiving institution does not guarantee enrollment in a specific degree program. Some programs of receiving institutions have controlled entry due either to space limitations or academic requirements.

The credit and course transfer guarantees described in this agreement apply to the specific degree program covered by this agreement. The receiving institution will accept all applicable credits earned within ten years of transfer to the receiving institution. Credits earned more than ten years earlier will be evaluated on a course-by-course basis.

Because of the limitations just listed, students must consult with the Office of Admissions at the institution to which they are considering transferring.

COLORADO GUARANTEED TRANSFER PROGRAM FOR GENERAL EDUCATION (gtPATHWAYS)

After starting on your higher education pathway at any public college or university in Colorado, and, upon acceptance to another, you can transfer up to **31 credits** of successfully (C- or above) completed gtPATHWAYS (general education) coursework. These courses are guaranteed to transfer with you and count toward your general education core or graduation requirements for most, but not all, associate's or bachelor's degree programs. If you completed a course before it became effective as a gtPATHWAYS course, the institution to which you transfer has the option to accept it or not accept it. For more information and the most updated list of gtPATHWAYS courses, including dates when individual courses became effective, visit <http://higher.ed.colorado.gov/Academics/Transfers/gtPathways/curriculum.html>. Guaranteed transfer courses that are not offered by FRCC, but are taken at other Colorado institutions, may apply to the appropriate GT category under Required General Education Courses.

If you complete an Associate of Arts or Associate of Science degree, 60 credits are guaranteed to transfer to a four-year school, once you are accepted for admission. You should be able to finish a bachelor's degree within another 60 credits. This is called a 60+60 transfer plan. Please note that some majors at the four-year schools require specific courses that must be completed as part of the A.A. or A.S. degree. Note also that some majors may exceed the typical 120 credits required to graduate. For more information on Colorado's 60+60 program, including transfer guides and a list of applicable degrees, visit <http://higher.ed.colorado.gov/Academics/Transfers/gtPathways/default.html>.

Additional notes regarding transfer:

Transferring credit to FRCC: Transfer courses will be evaluated for FRCC course equivalency and applied to degree requirements according to state and college policy. Completion of FRCC equivalent guaranteed transfer (gt) course requirements from any regionally accredited institution will meet FRCC degree requirements.

Credit for Prior Learning: Credit earned through prior learning methodologies (including CLEP, Advanced Placement, International Baccalaureate, articulation, military, corporate, challenge exam, portfolio credit, correspondence courses, or independent study) may meet FRCC degree requirements. A student who is awarded credit using standardized credit for prior learning assessments may be granted a degree with designation & a gt Pathways notation on their CCCS transcript. The receiving Colorado public institution will be obligated to honor the promise that completion of the AA/AS with designation and/or gt Pathway curriculum fulfills the lower division requirements as defined by the statewide articulation agreement. The receiving institution will evaluate those credits according to its standard policy. Students who wish to use credits awarded by exam to fulfill specific course requirements are responsible for consulting with the institution to which they are considering transferring to determine whether the credits they have been awarded by exam meet the standards of the receiving institution for specific course equivalents.

Advising Sheet: Associate of Arts Degree, Designation in Criminal Justice for Transfer

Unofficial Degree Check Catalog Year: 2013-2014

Student Name: _____

Date: _____

Transferring credit into this institution may impact degree completion eligibility. Please see an advisor.

Required General Education Courses:

Guaranteed transfer courses that are not offered by FRCC, but are taken at other Colorado institutions, may apply to the appropriate GT category under Required General Education Courses. Completing COM courses is a Colorado Community College System requirement, not a gtPATHWAYS requirement.

Communication

(GT-CO1, GT-CO2, GT-CO3) (6 semester credits) Take one pair of courses.

- ENG 121 (3) and ENG 122 (3) OR
 ENG 122 (3) and a GT-CO3 course

Mathematics

(GT-MA1) (4 semester credits)

Students must take MAT 121 (4) to fulfill the requirement in this category.

Natural & Physical Sciences

(GT-SC1) (8 semester credits)

Take two gtPathways courses (GT-SC1, GT-SC2) one must be lab-based (GT-SC1) course.

- | | | |
|--------------------------------------|--------------------------------------|--------------------------------------|
| <input type="checkbox"/> AGY 240 (4) | <input type="checkbox"/> AST 101 (4) | <input type="checkbox"/> AST 102 (4) |
| <input type="checkbox"/> BIO 105 (4) | <input type="checkbox"/> BIO 111 (5) | <input type="checkbox"/> BIO 112 (5) |
| <input type="checkbox"/> BIO 201 (4) | <input type="checkbox"/> BIO 202 (4) | <input type="checkbox"/> BIO 204 (4) |
| <input type="checkbox"/> BIO 208 (5) | <input type="checkbox"/> BIO 221 (5) | |
| <input type="checkbox"/> CHE 101 (5) | <input type="checkbox"/> CHE 102 (5) | <input type="checkbox"/> CHE 105 (5) |
| <input type="checkbox"/> CHE 111 (5) | <input type="checkbox"/> CHE 112 (5) | <input type="checkbox"/> ENV 101 (4) |
| <input type="checkbox"/> GEO 111 (4) | <input type="checkbox"/> GEO 112 (4) | <input type="checkbox"/> GEY 111 (4) |
| <input type="checkbox"/> GEY 112 (4) | <input type="checkbox"/> GEY135 (4) | <input type="checkbox"/> MET 150 (4) |
| <input type="checkbox"/> PHY 105 (4) | <input type="checkbox"/> PHY 107 (4) | <input type="checkbox"/> PHY 111 (5) |
| <input type="checkbox"/> PHY 112 (5) | <input type="checkbox"/> PHY 211 (5) | <input type="checkbox"/> PHY 212 (5) |
| <input type="checkbox"/> SCI 155 (4) | <input type="checkbox"/> SCI 156 (4) | |

Arts & Humanities, History, and Social & Behavioral Sciences

(15 semester credits)

Arts & Humanities

(6 semester credits)

Take any two courses from two different GT Arts and Humanities categories (GT-AH1, GT-AH2, GT-AH3, or GT-AH4).

Arts (GT-AH1)

- | | | |
|--------------------------------------|--------------------------------------|--------------------------------------|
| <input type="checkbox"/> ART 110 (3) | <input type="checkbox"/> ART 111 (3) | <input type="checkbox"/> ART 112 (3) |
| <input type="checkbox"/> ART 207 (3) | <input type="checkbox"/> DAN 125 (3) | <input type="checkbox"/> MUS 120 (3) |
| <input type="checkbox"/> MUS 121 (3) | <input type="checkbox"/> MUS 122 (3) | <input type="checkbox"/> MUS 123 (3) |
| <input type="checkbox"/> MUS 125 (3) | <input type="checkbox"/> THE 105 (3) | <input type="checkbox"/> THE 211 (3) |
| <input type="checkbox"/> THE 212 (3) | | |

Literature & Humanities (GT-AH2)

- | | | |
|--------------------------------------|--------------------------------------|--------------------------------------|
| <input type="checkbox"/> HUM 115 (3) | <input type="checkbox"/> HUM 121 (3) | <input type="checkbox"/> HUM 122 (3) |
| <input type="checkbox"/> HUM 123 (3) | <input type="checkbox"/> LIT 115 (3) | <input type="checkbox"/> LIT 201 (3) |
| <input type="checkbox"/> LIT 202 (3) | <input type="checkbox"/> LIT 205 (3) | <input type="checkbox"/> LIT 211 (3) |
| <input type="checkbox"/> LIT 212 (3) | <input type="checkbox"/> LIT 221 (3) | <input type="checkbox"/> LIT 222 (3) |
| <input type="checkbox"/> LIT 225 (3) | <input type="checkbox"/> LIT 259 (3) | <input type="checkbox"/> LIT 268 (3) |

Ways of Thinking (GT-AH3)

- | | | |
|--------------------------------------|--------------------------------------|--------------------------------------|
| <input type="checkbox"/> PHI 111 (3) | <input type="checkbox"/> PHI 112 (3) | <input type="checkbox"/> PHI 113 (3) |
| <input type="checkbox"/> PHI 114 (3) | <input type="checkbox"/> PHI 214 (3) | <input type="checkbox"/> PHI 218 (3) |
| <input type="checkbox"/> PHI 220 (3) | | |

Foreign Languages (GT-AH4)

- | | | |
|--------------------------------------|--------------------------------------|--------------------------------------|
| <input type="checkbox"/> FRE 211 (3) | <input type="checkbox"/> FRE 212 (3) | <input type="checkbox"/> GER 211 (3) |
| <input type="checkbox"/> GER 212 (3) | <input type="checkbox"/> ITA 211 (3) | <input type="checkbox"/> ITA 212 (3) |

-
- JPN 211 (3) JPN 212 (3) RUS 211 (3)
 RUS 212 (3) SPA 211 (3) SPA 212 (3)

History

(3 semester credits) Take one course.

History (GT-HI1)

-
- HIS 101 (3) HIS 102 (3) HIS 111 (3)
 HIS 112 (3) HIS 201 (3) HIS 202 (3)
 HIS 207 (3) HIS 208 (3) HIS 215 (3)
 HIS 225 (3) HIS 236 (3) HIS 243 (3)
 HIS 244 (3) HIS 245 (3) HIS 247 (3)
 HIS 249 (3) HIS 255 (3) HIS 260 (3)

Social & Behavioral Sciences

(6 semester credits)

SOC 101 (3) and one GT-SS3 course

Human Behavior, Culture, or Social Frameworks (GT-SS3)

-
- ANT 101 (3) ANT 102 (1) ANT 103 (1)
 ANT 104 (1) ANT 107 (3) ANT 111 (3)
 ANT 201 (3) ANT 215 (3) ANT 250 (3)
 COM 220 (3) ETH 200 (3)
 JOU 105 (3) PSY 101 (3) PSY 102 (3)
 PSY 205 (3) PSY 217 (3) PSY 226 (3)
 PSY 227 (3) PSY 235 (3) PSY 238 (3)
 PSY 249 (3) SOC 102 (3)

-
- SOC 205 (3) SOC 207 (3) SOC 215 (3)
 SOC 216 (3) SOC 218 (3) SOC 220 (3)
 SOC 231 (3) SOC 237 (3) WST 200 (3)
 WST 225 (3) WST 240 (3) WST 249 (3)

SUBTOTAL: (33 semester credits required)

Additional Required Courses: Take all four of the following courses (12 semester credits)

- COM 115 (3) or COM 125 (3)
 CRJ 110 (3)
 CRJ 125 (3)
 CRJ 145 (3)

(6 semester credits) Choose two courses from the following:

-
- CRJ 127 (3) CRJ 135 (3) CRJ 205 (3)
 CRJ 209 (3) CRJ 230 (3) CRJ 231 (3)
 CRJ 235 (3) CRJ 236 (3) CRJ 257 (3)
 CRJ 268 (3)

(9 semester credits) Choose three courses from the following:

-
- ANT 201 (3) CNG 258 (3) COM 217 (3)
 COM 225 (3) POS 111 (3) POS 125 (3)
 PSY 207 (3) PSY 217 (3) PSY 226 (3)
 PSY 249 (3) SOC 231 (3)

TOTAL: (60 semester credits required)

IMPORTANT NOTES & GRADUATION REQUIREMENTS

♦ This degree worksheet is subject to change. Please work closely with an advisor to create your academic plan and ensure a successful experience at FRCC.

- ♦ Credits transferred to FRCC are not official until evaluated by Admissions & Records.
- ♦ An absence of 12 months constitutes a break in enrollment and invalidates this review and possibly this plan of study.
- ♦ No developmental courses may be applied to this degree.
- ♦ Minimum Grade Point Average 2.0; only grades of "C" or above may be applied to this degree.
- ♦ Minimum 15 degree-applicable semester credits must be completed at FRCC.
- ♦ To check your degree status, go to your eWOLF account, click on Degree Check, and review your progress toward your degree.
- ♦ Submit graduation application, transfer credits, and credit for prior learning to Admissions & Records by deadline and complete CAAP exam (see Class Schedule for dates).
- ♦ Continuing students who have not had a 12-month lapse in enrollment will be allowed to use the requirements listed in any catalog published while continuously attending the college.

ADDITIONAL GRADUATION REQUIREMENTS FOR ASSOCIATE OF ARTS DEGREE

- ♦ No developmental courses may be applied to this degree.
- ♦ No more than 6 semester credits in independent study or internships in the prefixes following may be applied to this degree.
- ♦ Minimum Grade Point Average 2.0; only grades of "C" or above may be applied to this degree.
- ♦ Minimum 15 degree-applicable semester credits must be completed at FRCC.
- ♦ Submit graduation application, transfer credits, and credit for prior learning to Admissions & Records by deadline and complete CAAP exam (see Class Schedule for dates).
- ♦ Continuing students who have not had a 12-month lapse in enrollment will be allowed to use the requirements listed in any catalog published while continuously attending the college.

The purpose of a statewide articulation agreement is to identify the courses a student at a Colorado public community college must complete as part of an AA/AS degree to be guaranteed to be able to complete the designated baccalaureate degree program at any public four-year college and university (hereafter referred to as receiving institutions) that offers that program within the minimum number of credits designated by the Colorado Commission on Higher Education. The guarantees and limitations below describe the minimum requirements to which all participating institutions have agreed. An appeal related to denial of transfer credits will follow the Colorado Commission on Higher Education student appeal process. An appeal may be filed at <http://higher.ed.colorado.gov/Academics/Complaints/>.

Students who complete the AA/AS degree **and** the prescribed curriculum in the articulation agreement **and** are admitted (with no academic deficiencies that require additional coursework) to a receiving institution participating in this agreement are guaranteed the following:

- ♦ Junior standing with no more than 60 remaining credits to meet the graduation requirements for a baccalaureate degree in the degree program covered by this articulation agreement.
- ♦ Completion of the receiving institution's lower division general education requirements as defined by the gtPathways curriculum.

- ♦ The same graduation requirements as students who begin and complete this degree program at the receiving institution.

STATEWIDE CRIMINAL JUSTICE TRANSFER ARTICULATION AGREEMENT

The following four-year schools participate in this agreement:

- ♦ Colorado Mesa University
- ♦ Metropolitan State University of Denver
- ♦ University of Colorado at Colorado Springs
- ♦ University of Colorado Denver
- ♦ University of Northern Colorado

A transfer student from a Colorado public community college who has earned an Associate of Arts degree as defined in this agreement will need to complete no more than 60 credits to earn the baccalaureate degree at the four-year institution (60+60 transfer agreement).

Completion of the curriculum prescribed within this statewide articulation agreement does not guarantee admission to a participating receiving institution. Students must meet all admission and application requirements at the receiving institution including the submission of all required documentation by stated deadlines. Please note: students transferring to a University of Colorado institution (Boulder, Colorado Springs, Denver) must satisfy the CU System's MAPS (Minimum Academic Preparation Standards) requirement.

Only courses with grades of C- or above are guaranteed to transfer.

Admission to a receiving institution does not guarantee enrollment in a specific degree program. Some programs of receiving institutions have controlled entry due either to space limitations or academic requirements.

The credit and course transfer guarantees described in this agreement apply to the specific degree program covered by this agreement. Receiving institutions will evaluate application of the courses designated in this agreement to other degree programs on a course-by-course basis.

Students who wish to use credits awarded by exam, such as AP (Advanced Placement), or IB (International Baccalaureate), to fulfill specific course requirements are responsible for consulting with the institution to which they are considering transferring to determine whether the credits they have been awarded by exam meet the standards of the receiving institution for specific course equivalents.

The receiving institution will accept all applicable credits earned within ten years of transfer to the receiving institution. Credits earned more than ten years earlier will be evaluated on a course-by-course basis.

All the courses a student needs to take in the discipline covered by this articulation agreement are listed in the prescribed curriculum. **Any additional courses taken in the discipline covered by this agreement might not count toward the requirements of the major at the receiving institution.** Students can avoid this problem by either taking no more courses in the discipline than the ones identified in the prescribed curriculum or by consulting first with the receiving institution to assure that any additional courses they take in the discipline will count toward the major.

For more information about the Statewide Criminal Justice Articulation Agreement, visit <http://higher.ed.colorado.gov/Academics/Transfers/>.

Refer to the college catalog and website for complete

information about this agreement and other academic matters.

COLORADO GUARANTEED TRANSFER PROGRAM FOR GENERAL EDUCATION (gtPATHWAYS)

After starting on your higher education pathway at any public college or university in Colorado, and, upon acceptance to another, you can transfer up to **31 credits** of successfully (C- or above) completed gtPATHWAYS (general education) coursework. These courses are guaranteed to transfer with you and count toward your general education core or graduation requirements for most, but not all, associate's or bachelor's degree programs. If you completed a course before it became effective as a gtPATHWAYS course, the institution to which you transfer has the option to accept it or not accept it. For more information and the most updated list of gtPATHWAYS courses, including dates when individual courses became effective, visit <http://higher.ed.colorado.gov/Academics/Transfers/gtPathways/curriculum.html>. Guaranteed transfer courses that are not offered by FRCC, but are taken at other Colorado institutions, may apply to the appropriate GT category under Required General Education Courses.

Students who do not complete an AA/AS degree can use the prescribed curriculum within a statewide articulation agreement as a common advising guide for transfer to all public institutions that offer the designated baccalaureate degree program.

Please note the following:

1. The guarantee that the number of credits required to graduate will be at the State-mandated minimum for this baccalaureate degree program applies only to students who complete the AA/AS degree and the complete curriculum prescribed in this agreement.
2. Students are guaranteed application of completed gtPathways courses within the curriculum prescribed in this agreement up to the established maximum in each category.
3. Except in special cases (e.g., the partial completion of a required sequence of courses or variation in the number of credit hours institutions award for course equivalents), students can expect that courses specified within the prescribed curriculum in this agreement that are successfully completed with a C- or higher will fulfill the relevant course requirements in the designated major.
4. Receiving institutions will evaluate all courses other than those specified in this agreement on a course-by-course basis. Students transferring without a completed AA/AS degree must consult with the Office of Admissions at the institution to which they are considering transferring to review the issues identified above and to make sure they meet all admission and application requirements at the receiving institution, including the submission of all required documentation by stated deadlines.

If you complete an Associate of Arts or Associate of Science degree, 60 credits are guaranteed to transfer to a four-year school, once you are accepted for admission. You should be able to finish a bachelor's degree within another 60 credits. This is called a 60+60 transfer plan. Please note that some majors at the four-year schools require specific courses that must be completed as part of the A.A. or A.S. degree. Note also that some majors may exceed the typical 120 credits required to graduate. Such degree programs will be listed in your

selected institution's catalog and advising personnel can assist you with locating the specific degree requirements for your particular institution and major. For more information on Colorado's 60+60 program, including transfer guides and a list of applicable degrees, visit <http://higherred.colorado.gov/Academics/Transfers/gtPathway/default.html>.

Additional notes regarding transfer:

Transferring credit to FRCC: Transfer courses will be evaluated for FRCC course equivalency and applied to degree requirements according to state and college policy. Completion of FRCC equivalent guaranteed transfer (gt) course requirements from any regionally accredited institution will meet FRCC degree requirements.

Credit for Prior Learning: Credit earned through prior learning methodologies (including CLEP, Advanced Placement, International Baccalaureate, articulation, military, corporate, challenge exam, portfolio credit, correspondence courses, or independent study) may meet FRCC degree requirements. A student who is awarded credit using standardized credit for prior learning assessments may be granted a degree with designation & a gt Pathways notation on their CCCS transcript. The receiving Colorado public institution will be obligated to honor the promise that completion of the AA/AS with designation and/or gt Pathway curriculum fulfills the lower division requirements as defined by the statewide articulation agreement. The receiving institution will evaluate those credits according to its standard policy. Students who wish to use credits awarded by exam to fulfill specific course requirements are responsible for consulting with the institution to which they are considering transferring to determine whether the credits they have been awarded by exam meet the standards of the receiving institution for specific course equivalents.

Advising Sheet: Associate of Arts Degree, Agreement in Early Childhood Education for Transfer

Unofficial Degree Check Catalog Year: 2013-2014

Student Name: _____

Date: _____

Transferring credit into this institution may impact degree completion eligibility. Please see an advisor.

Required General Education Courses:

Guaranteed transfer courses that are not offered by FRCC, but are taken at other Colorado institutions, may apply to the appropriate GT category under Required General Education Courses. Completing COM courses is a Colorado Community College System requirement, not a gtPATHWAYS requirement.

Communication

(GT-CO1, GT-CO2) (6 semester credits) Take both courses:
 ENG 121 (3) and ENG 122 (3)

Mathematics

(GT-MA1) (6-7 semester credits)
 Select **one** of the following options based on your transfer institution's specific requirements:

*Math Option 1***

MAT 120 (4) OR MAT 121 (4) AND MAT 135 (3)

*Math Option 2***

Non-GT Courses MAT 155* (3) AND MAT 156* (3)

*MAT 155 and 156 may not apply to other Associate degrees. Please confirm with an Academic Advisor.

** Students planning to transfer to CSU should complete Option 1: MAT 120 or MAT 121 and MAT 135.

Arts & Humanities

(6 semester credits) Select any two of the following courses:

- ART 110 (3) (GT-AH1)
- MUS 120 (3) (GT-AH1)
- LIT 115 (3) (GT-AH2)
- LIT 255 (3)

Natural & Physical Sciences

(GT-SC1) (8 semester credits) Both courses are required.

- SCI 155 (4) (GT-SC1) AND
- SCI 156 (4) (GT-SC1)

Social & Behavioral Sciences

(9 semester credits) All three courses are required.

- POS 111 (3) (GT-SS1)
- GEO 105 (3) (GT-SS2)
- HIS 201 (3) (GT-HI1)

SUBTOTAL: (35-36 semester credits required)

Additional Required Courses (25 semester credits). All are required.

- ECE 101 (3)
- ECE 102 (3)
- ECE 205 (3)
- ECE 188 OR ECE 209 OR ECE 236 (1)
- ECE 238 (3)
- ECE 241 (3)
- COM 115* (3) (grade of B or above required for degree)

*Completing COM 115 is a Colorado Community College System requirement, not a gtPATHWAYS requirement.

Electives (6 semester credits)

Selection of elective credits should be done in consultation with an advisor and the four-year institution to which you intend to transfer.

- _____
- _____
- _____

SUBTOTAL (25 semester credits required)

TOTAL (60 semester credits required)

IMPORTANT NOTES & GRADUATION REQUIREMENTS

- ◆ This degree worksheet is subject to change. Please work closely with an advisor to create your academic plan and ensure a successful experience at FRCC.
- ◆ Credits transferred to FRCC are not official until evaluated by Admissions & Records.
- ◆ An absence of 12 months constitutes a break in enrollment and invalidates this review and possibly this plan of study.
- ◆ No developmental courses may be applied to this degree.
- ◆ Minimum Grade Point Average 2.0; only grades of "C" or above may be applied to this degree; grade of "B" or above required for COM 115.
- ◆ Minimum 15 degree-applicable semester credits must be

completed at FRCC.

♦ To check your degree status, go to your eWOLF account, click on Degree Check, and review your progress toward your degree.

♦ Submit graduation application, transfer credits, and credit for prior learning to Admissions & Records by deadline and complete CAAP exam (see Class Schedule for dates).

♦ Continuing students who have not had a 12-month lapse in enrollment will be allowed to use the requirements listed in any catalog published while continuously attending the college.

STATEWIDE EARLY CHILDHOOD TEACHER EDUCATION ARTICULATION AGREEMENT

The following four-year schools participate in this agreement:

- ♦ Adams State University (Interdisciplinary Studies)
- ♦ Colorado Mesa University (Early Childhood Education)
- ♦ Colorado State University (Human Development)
- ♦ Fort Lewis College (Interdisciplinary Studies)
- ♦ Metropolitan State University of Denver (Human Development)
- ♦ University of Northern Colorado (Interdisciplinary Studies)

A transfer student from a Colorado public community college who has earned an Associate of Arts degree as defined in this agreement will need to complete no more than 66 credits to earn the baccalaureate degree at the four-year institution (60+66 transfer agreement). However, admission to the four-year institution and its teacher education program are not guaranteed.

A grade of "B" or above is required for Public Speaking (COM 115, formerly SPE 115).

To complete the AA graduation requirements, students will complete the final 6 credits designated by the four-year institution to which they intend to transfer. Students should contact that institution for more information about recommended courses to fulfill the final 6 credits.

Students need not complete the AA degree to transfer any or all of the courses to the institution whose list of final 6 credits they are following.

The receiving institution will accept all applicable credits earned within ten years of transfer to the receiving institution. Credits earned more than ten years earlier will be evaluated on a course-by-course basis.

For more information about the Statewide Early Childhood Teacher Education Articulation Agreement, visit <http://higher.ed.colorado.gov/Academics/Transfers/> <http://higher.ed.colorado.gov/Academics/Transfers/Agreements/earlychildhood>.

Refer to the college catalog and website for complete information about this agreement and other academic matters.

Advising Sheet: Associate of Arts Degree, Designation in Economics for Transfer

Unofficial Degree Check

Catalog Year: 2013-2014

Student Name: _____

Date: _____

Transferring credit into this institution may impact degree completion eligibility. Please see an advisor.

Required General Education Courses:

Guaranteed transfer courses that are not offered by FRCC, but are taken at other Colorado institutions, may apply to the appropriate GT category under Required General Education Courses. Completing COM courses is a Colorado Community College System requirement, not a gtPATHWAYS requirement.

Communication

(GT-CO1, GT-CO2) (6 semester credits) Take both courses.

ENG 121 (3) and ENG 122 (3)

Mathematics

(GT-MA1) (8 semester credits) Take both courses.

MAT 201 (5) AND MAT 135 (3)

Natural & Physical Sciences

(GT-SC1, GT-SC2) (8 semester credits) Take two courses.

<input type="checkbox"/> AGY 240 (4)	<input type="checkbox"/> AST 101 (4)	<input type="checkbox"/> AST 102 (4)
<input type="checkbox"/> BIO 105 (4)	<input type="checkbox"/> BIO 111 (5)	<input type="checkbox"/> BIO 112 (5)
<input type="checkbox"/> BIO 201 (4)	<input type="checkbox"/> BIO 202 (4)	<input type="checkbox"/> BIO 204 (4)
<input type="checkbox"/> BIO 208 (5)	<input type="checkbox"/> BIO 221 (5)	
<input type="checkbox"/> CHE 101 (5)	<input type="checkbox"/> CHE 102 (5)	<input type="checkbox"/> CHE 105 (5)
<input type="checkbox"/> CHE 111 (5)	<input type="checkbox"/> CHE 112 (5)	<input type="checkbox"/> ENV 101 (4)
<input type="checkbox"/> GEO 111 (4)	<input type="checkbox"/> GEO 112 (4)	<input type="checkbox"/> GEY 111 (4)
<input type="checkbox"/> GEY 112 (4)	<input type="checkbox"/> GEY 135 (4)	<input type="checkbox"/> MET 150 (4)
<input type="checkbox"/> PHY 105 (4)	<input type="checkbox"/> PHY 107 (4)	
<input type="checkbox"/> PHY 111 (5)	<input type="checkbox"/> PHY 112 (5)	<input type="checkbox"/> PHY 211 (5)
<input type="checkbox"/> PHY 212 (5)	<input type="checkbox"/> SCI 155 (4)	<input type="checkbox"/> SCI 156 (4)

Arts & Humanities, History, and Social & Behavioral Sciences

(18 semester credits)

Arts & Humanities

(9 semester credits)

Take nine credits from any of the four GT Arts & Humanities categories (GT-AH1, GT-AH2, GT-AH3, or GT-AH4)

Arts (GT-AH1)

<input type="checkbox"/> ART 110 (3)	<input type="checkbox"/> ART 111 (3)	<input type="checkbox"/> ART 112 (3)
<input type="checkbox"/> ART 207 (3)	<input type="checkbox"/> DAN 125 (3)	<input type="checkbox"/> MUS 120 (3)
<input type="checkbox"/> MUS 121 (3)	<input type="checkbox"/> MUS 122 (3)	<input type="checkbox"/> MUS 123 (3)
<input type="checkbox"/> MUS 125 (3)	<input type="checkbox"/> THE 105 (3)	<input type="checkbox"/> THE 211 (3)
<input type="checkbox"/> THE 212 (3)		

Literature & Humanities (GT-AH2)

<input type="checkbox"/> HUM 115 (3)	<input type="checkbox"/> HUM 121 (3)	<input type="checkbox"/> HUM 122 (3)
<input type="checkbox"/> HUM 123 (3)	<input type="checkbox"/> LIT 115 (3)	<input type="checkbox"/> LIT 201 (3)
<input type="checkbox"/> LIT 202 (3)	<input type="checkbox"/> LIT 205 (3)	<input type="checkbox"/> LIT 211 (3)
<input type="checkbox"/> LIT 212 (3)	<input type="checkbox"/> LIT 221 (3)	<input type="checkbox"/> LIT 222 (3)
<input type="checkbox"/> LIT 225 (3)	<input type="checkbox"/> LIT 259 (3)	<input type="checkbox"/> LIT 268 (3)

Ways of Thinking (GT-AH3)

<input type="checkbox"/> PHI 111 (3)	<input type="checkbox"/> PHI 112 (3)	<input type="checkbox"/> PHI 113 (3)
<input type="checkbox"/> PHI 114 (3)	<input type="checkbox"/> PHI 214 (3)	<input type="checkbox"/> PHI 218 (3)
<input type="checkbox"/> PHI 220 (3)		

Foreign Languages (GT-AH4)

<input type="checkbox"/> FRE 211 (3)	<input type="checkbox"/> FRE 212 (3)	<input type="checkbox"/> GER 211 (3)
<input type="checkbox"/> GER 212 (3)	<input type="checkbox"/> ITA 211 (3)	<input type="checkbox"/> ITA 212 (3)
<input type="checkbox"/> JPN 211 (3)	<input type="checkbox"/> JPN 212 (3)	<input type="checkbox"/> RUS 211 (3)
<input type="checkbox"/> RUS 212 (3)	<input type="checkbox"/> SPA 211 (3)	<input type="checkbox"/> SPA 212 (3)

History

(3 semester credits) Take one course.

History (GT-HI1)

<input type="checkbox"/> HIS 101 (3)	<input type="checkbox"/> HIS 102 (3)	<input type="checkbox"/> HIS 111 (3)
<input type="checkbox"/> HIS 112 (3)	<input type="checkbox"/> HIS 201 (3)	<input type="checkbox"/> HIS 202 (3)
<input type="checkbox"/> HIS 207 (3)	<input type="checkbox"/> HIS 208 (3)	<input type="checkbox"/> HIS 215 (3)
<input type="checkbox"/> HIS 225 (3)	<input type="checkbox"/> HIS 236 (3)	<input type="checkbox"/> HIS 243 (3)
<input type="checkbox"/> HIS 244 (3)	<input type="checkbox"/> HIS 245 (3)	<input type="checkbox"/> HIS 247 (3)
<input type="checkbox"/> HIS 249 (3)	<input type="checkbox"/> HIS 255 (3)	<input type="checkbox"/> HIS 260 (3)

Social & Behavioral Sciences

(6 semester credits) Take both Economics courses.

Economics & Political Systems (GT-SS1)

<input type="checkbox"/> ECO 201 (3)	<input type="checkbox"/> ECO 202 (3)
--------------------------------------	--------------------------------------

SUBTOTAL: (40 semester credits required)

Additional Electives (20 semester credits)

Additional 20 semester credits of electives selected from the Approved Electives List. Selections of elective credits should be done in consultation with an advisor and the four-year institution to which you intend to transfer.

- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____

TOTAL (60 semester credits required)

IMPORTANT

- ◆ This degree worksheet is subject to change. Please work closely with an advisor to create your academic plan and ensure a successful experience at FRCC.
- ◆ To check your degree status, go to your eWOLF account, click on Degree Check, and review your progress toward your degree.
- ◆ An absence of 12 months constitutes a break in enrollment and invalidates this review and possibly this plan of study.

ADDITIONAL GRADUATION REQUIREMENTS FOR ASSOCIATE OF ARTS DEGREE

- ◆ No developmental courses may be applied to this degree.
- ◆ No more than 6 semester credits in independent study or internships in the prefixes following may be applied to this degree.
- ◆ Minimum Grade Point Average 2.0; only grades of "C" or above may be applied to this degree.
- ◆ Minimum 15 degree-applicable semester credits must be completed at FRCC.
- ◆ Submit graduation application, transfer credits, and credit

for prior learning to Admissions & Records by deadline and complete CAAP exam (see Class Schedule for dates).

- ◆ Continuing students who have not had a 12-month lapse in enrollment will be allowed to use the requirements listed in any catalog published while continuously attending the college.

STATEWIDE ECONOMICS TRANSFER ARTICULATION AGREEMENT

The Statewide Economics Transfer Articulation Agreement ensures that a student who begins an Associate of Arts degree at a Colorado community college will transfer 60 credits into the Bachelor of Arts in Economics degree program at a Colorado public four-year college (i.e., 60+60 agreement). The following four-year schools participate in this agreement:

- ◆ Adams State University
- ◆ Colorado State University-Fort Collins
- ◆ Fort Lewis College
- ◆ Metropolitan State University of Denver
- ◆ University of Colorado at Boulder
- ◆ University of Colorado at Colorado Springs
- ◆ University of Colorado Denver
- ◆ University of Northern Colorado
- ◆ Western State Colorado University

Completion of the curriculum prescribed within this statewide articulation agreement does not guarantee admission to a participating receiving institution. Students must meet all admission and application requirements at the receiving institution including the submission of all required documentation by stated deadlines. Please note: students transferring to a University of Colorado institution (Boulder, Colorado Springs, Denver) must satisfy the CU System's MAPS (Minimum Academic Preparation Standards) requirement.

Only courses with grades of C- or above are guaranteed to transfer.

Admission to a receiving institution does not guarantee enrollment in a specific degree program. Some programs of receiving institutions have controlled entry due either to space limitations or academic requirements.

The credit and course transfer guarantees described in this agreement apply to the specific degree program covered by this agreement. The receiving institution will accept all applicable credits earned within ten years of transfer to the receiving institution. Credits earned more than ten years earlier will be evaluated on a course-by-course basis.

Because of the limitations just listed, students must consult with the Office of Admissions at the institution to which they are considering transferring.

COLORADO GUARANTEED TRANSFER PROGRAM FOR GENERAL EDUCATION (gtPATHWAYS)

After starting on your higher education pathway at any public college or university in Colorado, and, upon acceptance to another, you can transfer up to **31 credits** of successfully (C- or above) completed gtPATHWAYS (general education) coursework. These courses are guaranteed to transfer with you and count toward your general education core or graduation requirements for most, but not all, associate's or bachelor's degree programs. If you completed a course before it became effective as a gtPATHWAYS course, the institution to which you transfer has the option to accept it or not accept it. For more information and the most updated list of gtPATHWAYS courses, including dates when individual courses became effective, visit

<http://higherred.colorado.gov/Academics/Transfers/gtPathway/s/curriculum.html>. Guaranteed transfer courses that are not offered by FRCC, but are taken at other Colorado institutions, may apply to the appropriate GT category under Required General Education Courses.

If you complete an Associate of Arts or Associate of Science degree, 60 credits are guaranteed to transfer to a four-year school, once you are accepted for admission. You should be able to finish a bachelor's degree within another 60 credits. This is called a 60+60 transfer plan. Please note that some majors at the four-year schools require specific courses that must be completed as part of the A.A. or A.S. degree. Note also that some majors may exceed the typical 120 credits required to graduate. For more information on Colorado's 60+60 program, including transfer guides and a list of applicable degrees, visit <http://higherred.colorado.gov/Academics/Transfers/gtPathway/s/default.html>.

Additional notes regarding transfer:

Transferring credit to FRCC: Transfer courses will be evaluated for FRCC course equivalency and applied to degree requirements according to state and college policy. Completion of FRCC equivalent guaranteed transfer (gt) course requirements from any regionally accredited institution will meet FRCC degree requirements.

Credit for Prior Learning: Credit earned through prior learning methodologies (including CLEP, Advanced Placement, International Baccalaureate, articulation, military, corporate, challenge exam, portfolio credit, correspondence courses, or independent study) may meet FRCC degree requirements. A student who is awarded credit using standardized credit for prior learning assessments may be granted a degree with designation & a gt Pathways notation on their CCCS transcript. The receiving Colorado public institution will be obligated to honor the promise that completion of the AA/AS with designation and/or gt Pathway curriculum fulfills the lower division requirements as defined by the statewide articulation agreement. The receiving institution will evaluate those credits according to its standard policy. Students who wish to use credits awarded by exam to fulfill specific course requirements are responsible for consulting with the institution to which they are considering transferring to determine whether the credits they have been awarded by exam meet the standards of the receiving institution for specific course equivalents.

APPROVED ELECTIVE LIST FOR ASSOCIATE OF ARTS DEGREE

Elective credit for the Associate of Arts - Economics degree must be completed from the following list of approved prefixes and courses. While some of the following courses may be considered generally transferable, a student's major at a four-year college or university may limit what credit will be accepted and applied toward degree requirements at that institution. Selection of elective credits and course sequencing should be done in consultation with an advisor and the four-year institution to which you intend to transfer.

ACC	101, 121, 122
AGY	240

AIR	All AIR courses in this catalog
ANT	All ANT courses in this catalog
ARA	All ARA courses in this catalog
ARM	All ARM courses in this catalog
ART	All ART courses in this catalog
ASL	121, 122, 123, 221, 222
AST	All AST courses in this catalog
BIO	105, 106, 111, 112, 115, 160, 201, 202, 204, 208, 216, 221, 222
BUS	115, 203, 216, 217, 226
CHE	All CHE courses in this catalog
CHI	All CHI courses in this catalog
CIS	115, 118
COM	All COM courses in this catalog
CRJ	110, 111, 112, 125, 127, 135, 145, 205, 209, 210, 220, 230, 235, 236, 257
CSC	All CSC courses in this catalog
DAN	All DAN courses in this catalog <i>Note: DAN, OUT, & PED combined up to 3 credits cumulative. DAN 125 may be applied as an arts and humanities elective rather than a physical activities course.</i>
ECO	All ECO courses in this catalog
ENG	121 and above
ENV	101
ETH	All ETH courses in this catalog
FRE	All FRE courses in this catalog
GEO	All GEO courses in this catalog
GER	All GER courses in this catalog
GEY	All GEY courses in this catalog
HIS	All HIS courses in this catalog
HUM	All HUM courses in this catalog
HWE	100, 103, 110, 124
ITA	All ITA courses in this catalog
JOU	All JOU courses in this catalog
JPN	All JPN courses in this catalog
LIT	All LIT courses in this catalog
MAN	226
MAR	216, 220
MAT	120 or above
MET	All MET courses in this catalog
MGD	133, 221, 222, 233
MUS	All MUS courses in this catalog
OUT	All OUT courses in this catalog <i>Note: DAN, OUT, & PED combined up to 3 credits cumulative.</i>
PED	All PED courses in this catalog <i>Note: DAN, OUT, & PED combined up to 3 credits cumulative.</i>
PHI	All PHI courses in this catalog
PHY	All PHY courses in this catalog
POS	All POS courses in this catalog
PSY	All PSY courses in this catalog
RUS	All RUS courses in this catalog
SCI	All SCI courses in this catalog

SOC	All SOC courses in this catalog
SPA	All SPA courses in this catalog
THE	All THE courses in this catalog
WST	All WST courses in this catalog
GT	All Guaranteed Transfer courses in this catalog

Note: This list applies only to courses shown in the FRCC catalog, and to transfer credit which is equivalent to FRCC Catalog courses. Transfer courses which are identified with "999" course numbers (with the exception of Career Technical Electives) are also approved as elective credit.

Advising Sheet: Associate of Arts Degree, Agreement in Elementary Education for Transfer

Unofficial Degree Check Catalog Year: 2013-2014

Student Name: _____

Date: _____

Transferring credit into this institution may impact degree completion eligibility. Please see an advisor.

Required General Education Courses:

Guaranteed transfer courses that are not offered by FRCC, but are taken at other Colorado institutions, may apply to the appropriate GT category under Required General Education Courses. Completing COM courses is a Colorado Community College System requirement, not a gtPATHWAYS requirement.

Communication

(9 semester credits) All three courses are required*

- ENG 121 (3) (GT-CO1) (grade of B or above required for degree)
- ENG 122 (3) (GT-CO2)
- COM 115 (3)

* Completing COM 115 is a Colorado Community College System requirement, not a gtPathways requirement.

Mathematics

(GT-MA1) (6 semester credits) Students must take both.

- MAT 155 (3) and MAT 156 (3)

Arts & Humanities

(3 semester credits) Select one from the following:

Literature & Humanities (GT-AH2)

- LIT 115 (3)
- LIT 201 (3)
- LIT 202 (3)
- LIT 211 (3)
- LIT 221 (3)

Natural & Physical Sciences

(GT-SC1) (8 semester credits) Students must take both.

- SCI 155 (4) and SCI 156 (4)

Social & Behavioral Sciences

(9 semester credits) All three courses are required.

- GEO 105 (3) (GT-SS2)
- HIS 201 (3) (GT-HI1)
- POS 111 (3) (GT-SS1)

Education Requirements

EDU 221 (3) and PSY 238 (3) Students must take both courses, ECE 238 does not fulfill this requirement.

SUBTOTAL: (41 semester credits required)

Additional Education Requirements

Intended Transfer Institution:

The additional 19 credits for this degree are determined by your intended transfer institution. Please note that the qualifying courses listed below may total more than 19 credits if the courses are taken at FRCC (exceeding the 60 credits you need to complete this degree). In order to graduate with this degree, students, regardless of transfer plans, must complete the additional 19 credits listed below for one of the public institutions that is part of the articulation agreement.

The following courses qualify for the additional 19 credits of education requirements per the statewide Elementary Education Articulation Agreement. Please see your FRCC advisor for a list of qualifying courses for the following schools:

Adams State University, Colorado Mesa University, Colorado State University - Pueblo, Fort Lewis College, University of Colorado - Colorado Springs, and Western State Colorado University. Visit this site to see the final 19 credits for all Colorado schools included in this agreement: <http://higher.ed.colorado.gov/Academics/Transfers/>.

Metropolitan State University of Denver

Human Development Major

- HWE 100 (3)
- MAT 135 (3)
- LIT 255 (3)
- SOC 101 (3)
- PSY 235 (3)
- ART 110 (3) OR MUS 120 (3)
- HWE 103 (1) OR any other transferable (1) credit course

University of Colorado at Boulder

History Major

- HIS 101 (3)
- HIS 102 (3)
- HIS 202 (3)
- PHI 111 (3) OR PHI 112 (3)

One of:

- HIS 205 (3) OR LIT 205 (3) OR WST 240 (3)

One of:

- GEY 111 (4) OR BIO 111 (5) OR CHE 101 (5) OR CHE 111 (5) OR PHY 105 (4) OR PHY 111 (5) OR PHY 211 (5)

University of Colorado at Denver

Individually Structured Major (Emphasis Elementary Education)

- ART 110 (3) OR MUS 120 (3)
- HIS 202 (3)
- LIT 115 (3) OR LIT 255 (3)
- MAT 135 (3)
- PHI 112 (3)

One of:

- LIT 201 (3) OR LIT 202 (3) OR LIT 211 (3)
- LIT 211 or another course from LIT options above (3)

University of Northern Colorado

Interdisciplinary Studies Major

- ART 110 (3) OR MUS 120 (3)
- BIO 105 (4)
- EDU 261 (3)
- LIT 255 (3)

HIS 225 (3)

One of:

LIT 205 (3) OR WST 200 (3) OR SOC 218 (3)

SUBTOTAL: (19-21 semester credits required)

TOTAL: (60 semester credits required)

IMPORTANT NOTES & GRADUATION REQUIREMENTS

- ◆ This degree worksheet is subject to change. Please work closely with an advisor to create your academic plan and ensure a successful experience at FRCC.
- ◆ Credits transferred to FRCC are not official until evaluated by Admissions & Records.
- ◆ An absence of 12 months constitutes a break in enrollment and invalidates this review and possibly this plan of study.
- ◆ No developmental courses may be applied to this degree.
- ◆ Minimum Grade Point Average 2.0; only grades of "C" or above may be applied to this degree.
- ◆ Minimum 15 degree-applicable semester credits must be completed at FRCC.
- ◆ To check your degree status, go to your eWOLF account, click on Degree Check, and review your progress toward your degree.
- ◆ Submit graduation application, transfer credits, and credit for prior learning to Admissions & Records by deadline and complete CAAP exam (see Class Schedule for dates).
- ◆ Continuing students who have not had a 12-month lapse in enrollment will be allowed to use the requirements listed in any catalog published while continuously attending the college.

STATEWIDE ELEMENTARY EDUCATION ARTICULATION AGREEMENT

The following four-year schools participate in this agreement:

- ◆ Adams State University (B.A. Interdisciplinary Studies)
- ◆ Colorado Mesa University (B.A. Liberal Arts)
- ◆ Colorado State University - Pueblo ((B.A. Liberal Arts)
- ◆ Fort Lewis College (B.A. Interdisciplinary Studies)
- ◆ Metropolitan State University of Denver (B.A. Human Development)
- ◆ University of Colorado - Colorado Springs (B.A. Biology, B.A. English, B.A. Geography & Environmental Studies, B.A. History or B.A. Spanish)
- ◆ University of Colorado - Denver (B.A. Individually Structured Major, emphasis in Elementary Education)
- ◆ University of Northern Colorado (B.A. Interdisciplinary Studies)
- ◆ Western State Colorado University (B.A. Interdisciplinary Studies Liberal Arts)

A transfer student who is seeking elementary education licensure will meet the same graduation requirements as a native student, including enrollment in an approved teacher preparation program, grade point average, and enrollment in specified courses that align with Colorado standards. A transfer student from a Colorado public community college who has earned an Associate of Arts (A.A.) degree designated for the elementary education track as defined in this agreement will need to complete no more than 66 credits to earn the baccalaureate degree at the four-year institution (60 plus 60-66 transfer agreement).

A grade of "B" or above is required for English Composition (ENG 121). This is a standard teacher education admission requirement in Colorado.

To complete the AA graduation requirements, students will

complete the final 19 credits designated by the four-year institution to which they intend to transfer.

Students need not complete the AA degree to transfer any or all of the courses to the institution whose list of final 19 credits they are following.

The four-year college or university will accept all credits in the student's teacher education graduation agreement earned within ten years of transfer. Courses earned more than ten years earlier will be evaluated on an individual basis.

Because of the limitations just listed, students must consult with the Office of Admissions at the institution to which they are considering transferring.

For the list of the final 19 credits for each institution, or for more information about the Statewide Elementary Teacher Education Articulation Agreement, visit <http://higher.ed.colorado.gov/Academics/Transfers/>.

Refer to the college catalog and website for complete information about this agreement and other academic matters.

Advising Sheet: Associate of Arts Degree, Designation in French for Transfer

Unofficial Degree Check

Catalog Year: 2013-2014

Student Name: _____

Date: _____

Note: The degree tracks in French for the Professions and French with Secondary Teacher Licensure have different requirements and are not included in this agreement.

Transferring credit into this institution may impact degree completion eligibility. Please see an advisor.

Required General Education Courses:

Guaranteed transfer courses that are not offered by FRCC, but are taken at other Colorado institutions, may apply to the appropriate GT category under Required General Education Courses. Completing COM courses is a Colorado Community College System requirement, not a gtPATHWAYS requirement.

Communication

(GT-CO1, GT-CO2, GT-CO3) (6 semester credits) Take one pair of courses.

ENG 121 (3) and ENG 122 (3) OR

ENG 122 (3) and ENG 201 (3) OR another GT-CO3 course

Mathematics

(GT-MA1) (3 semester credits) Take one course.

MAT 120 (4) MAT 121 (4) MAT 122 (3)

MAT 123 (4) MAT 125 (4) MAT 135 (3)

MAT 166 (5) MAT 201 (5) MAT 202 (5)

MAT 203 (4) MAT 204 (5) MAT 265 (3)

Natural & Physical Sciences

(GT-SC1, GT-SC2) (7 semester credits) Take two courses.

AGY 240 (4) AST 101 (4) AST 102 (4)

BIO 105 (4) BIO 111 (5) BIO 112 (5)

FRONT RANGE COMMUNITY COLLEGE

<input type="checkbox"/> BIO 201 (4)	<input type="checkbox"/> BIO 202 (4)	<input type="checkbox"/> BIO 204 (4)
<input type="checkbox"/> BIO 208 (5)	<input type="checkbox"/> BIO 221 (5)	
<input type="checkbox"/> CHE 101 (5)	<input type="checkbox"/> CHE 102 (5)	<input type="checkbox"/> CHE 105 (5)
<input type="checkbox"/> CHE 111 (5)	<input type="checkbox"/> CHE 112 (5)	
<input type="checkbox"/> ENV 101 (4)	<input type="checkbox"/> GEO 111 (4)	<input type="checkbox"/> GEO 112 (4)
<input type="checkbox"/> GEY 111 (4)	<input type="checkbox"/> GEY 112 (4)	<input type="checkbox"/> GEY 135 (4)
<input type="checkbox"/> MET 150 (4)	<input type="checkbox"/> PHY 105 (4)	<input type="checkbox"/> PHY 107 (4)
<input type="checkbox"/> PHY 111 (5)	<input type="checkbox"/> PHY 112 (5)	<input type="checkbox"/> PHY 211 (5)
<input type="checkbox"/> PHY 212 (5)	<input type="checkbox"/> SCI 155 (4)	<input type="checkbox"/> SCI 156 (4)

Arts & Humanities, History, and Social & Behavioral Sciences

(15 semester credits)

Arts & Humanities

(9 semester credits)

Take FRE 211, FRE 212, and **one** additional course from any of the three GT Arts & Humanities categories (GT-AH1, GT-AH2, GT-AH3) Take both courses: (GT-AH4)

FRE 211 (3) and FRE 212 (3)

Arts (GT-AH1)

<input type="checkbox"/> ART 110 (3)	<input type="checkbox"/> ART 111 (3)	<input type="checkbox"/> ART 112 (3)
<input type="checkbox"/> ART 207 (3)	<input type="checkbox"/> DAN 125 (3)	<input type="checkbox"/> MUS 120 (3)
<input type="checkbox"/> MUS 121 (3)	<input type="checkbox"/> MUS 122 (3)	<input type="checkbox"/> MUS 123 (3)
<input type="checkbox"/> MUS 125 (3)	<input type="checkbox"/> THE 105 (3)	<input type="checkbox"/> THE 211 (3)
<input type="checkbox"/> THE 212 (3)		

Literature & Humanities (GT-AH2)

<input type="checkbox"/> HUM 115 (3)	<input type="checkbox"/> HUM 121 (3)	<input type="checkbox"/> HUM 122 (3)
<input type="checkbox"/> HUM 123 (3)	<input type="checkbox"/> LIT 115 (3)	<input type="checkbox"/> LIT 201 (3)
<input type="checkbox"/> LIT 202 (3)	<input type="checkbox"/> LIT 205 (3)	<input type="checkbox"/> LIT 211 (3)
<input type="checkbox"/> LIT 212 (3)	<input type="checkbox"/> LIT 221 (3)	<input type="checkbox"/> LIT 222 (3)
<input type="checkbox"/> LIT 225 (3)	<input type="checkbox"/> LIT 259 (3)	<input type="checkbox"/> LIT 268 (3)

Ways of Thinking (GT-AH3)

<input type="checkbox"/> PHI 111 (3)	<input type="checkbox"/> PHI 112 (3)	<input type="checkbox"/> PHI 113 (3)
<input type="checkbox"/> PHI 114 (3)	<input type="checkbox"/> PHI 214 (3)	<input type="checkbox"/> PHI 218 (3)
<input type="checkbox"/> PHI 220 (3)		

History

(3 semester credits) Take one course.

History (GT-HI1)

<input type="checkbox"/> HIS 101 (3)	<input type="checkbox"/> HIS 102 (3)	<input type="checkbox"/> HIS 111 (3)
<input type="checkbox"/> HIS 112 (3)	<input type="checkbox"/> HIS 215 (3)	<input type="checkbox"/> HIS 243 (3)
<input type="checkbox"/> HIS 244 (3)	<input type="checkbox"/> HIS 247 (3)	<input type="checkbox"/> HIS 249 (3)
<input type="checkbox"/> HIS 255 (3)		

Note: Students must choose one of the Non-US History courses listed above.

Note: CSU-Ft. Collins requires TWO Non-US History courses.

Social & Behavioral Sciences

(3 semester credits) Take any one course from any of the three GT Social & Behavioral Sciences categories (GT-SS1, GT-SS2, GT-SS3).

Economics & Political Systems (GT-SS1)

<input type="checkbox"/> ECO 101 (3)	<input type="checkbox"/> ECO 201 (3)	<input type="checkbox"/> ECO 202 (3)
--------------------------------------	--------------------------------------	--------------------------------------

<input type="checkbox"/> ECO 245 (3)	<input type="checkbox"/> POS 105 (3)	<input type="checkbox"/> POS 111 (3)
<input type="checkbox"/> POS 125 (3)	<input type="checkbox"/> POS 205 (3)	<input type="checkbox"/> POS 215 (3)
<input type="checkbox"/> POS 225 (3)		

Geography (GT-SS2)

GEO 105 (3) GEO 106 (3)

Human Behavior, Culture, or Social Frameworks (GT-SS3)

<input type="checkbox"/> ANT 101 (3)	<input type="checkbox"/> ANT 102 (1)	<input type="checkbox"/> ANT 103 (1)
<input type="checkbox"/> ANT 104 (1)	<input type="checkbox"/> ANT 107 (3)	<input type="checkbox"/> ANT 111 (3)
<input type="checkbox"/> ANT 201 (3)	<input type="checkbox"/> ANT 215 (3)	<input type="checkbox"/> ANT 250 (3)
<input type="checkbox"/> COM 220 (3)	<input type="checkbox"/> ETH 200 (3)	<input type="checkbox"/> JOU 105 (3)
<input type="checkbox"/> PSY 101 (3)	<input type="checkbox"/> PSY 102 (3)	<input type="checkbox"/> PSY 205 (3)
<input type="checkbox"/> PSY 217 (3)	<input type="checkbox"/> PSY 226 (3)	<input type="checkbox"/> PSY 227 (3)
<input type="checkbox"/> PSY 235 (3)	<input type="checkbox"/> PSY 238 (3)	<input type="checkbox"/> PSY 249 (3)
<input type="checkbox"/> SOC 101 (3)	<input type="checkbox"/> SOC 102 (3)	<input type="checkbox"/> SOC 205 (3)
<input type="checkbox"/> SOC 207 (3)	<input type="checkbox"/> SOC 215 (3)	<input type="checkbox"/> SOC 216 (3)
<input type="checkbox"/> SOC 218 (3)	<input type="checkbox"/> SOC 220 (3)	<input type="checkbox"/> SOC 231 (3)
<input type="checkbox"/> SOC 237 (3)	<input type="checkbox"/> WST 200 (3)	<input type="checkbox"/> WST 225 (3)
<input type="checkbox"/> WST 240 (3)	<input type="checkbox"/> WST 249 (3)	

SUBTOTAL: (31 semester credits required)

Additional Required Courses (10 semester credits) Take both courses.

FRE 111 (5) FRE 112 (5)

Additional Electives (19 semester credits)

Additional 19 semester credits of electives selected from the following Approved Electives List. Select these courses with your advisor to better fit the requirements of your anticipated major at your transfer college or university.

- _____
- _____
- _____
- _____
- _____
- _____

It is recommended, but not required, that a student take either COM 115 (Public Speaking) or COM 125 (Interpersonal Communications). Completing COM courses is a Colorado Community College System requirement, not a gtPATHWAYS requirement.

TOTAL (60 semester credits required)

IMPORTANT

- ♦ This degree worksheet is subject to change. Please work closely with an advisor to create your academic plan and ensure a successful experience at FRCC.
- ♦ To check your degree status, go to your eWOLF account, click on Degree Check, and review your progress toward your degree.
- ♦ An absence of 12 months constitutes a break in enrollment and invalidates this review and possibly this plan of study.

ADDITIONAL GRADUATION REQUIREMENTS FOR ASSOCIATE OF ARTS DEGREE

- ♦ No developmental courses may be applied to this degree.
- ♦ No more than 6 semester credits in independent study or

internships in the prefixes following may be applied to this degree.

- ♦ Minimum Grade Point Average 2.0; only grades of "C" or above may be applied to this degree.
- ♦ Minimum 15 degree-applicable semester credits must be completed at FRCC.
- ♦ Submit graduation application, transfer credits, and credit for prior learning to Admissions & Records by deadline and complete CAAP exam (see Class Schedule for dates).
- ♦ Continuing students who have not had a 12-month lapse in enrollment will be allowed to use the requirements listed in any catalog published while continuously attending the college.

STATEWIDE FRENCH TRANSFER ARTICULATION AGREEMENT

The Statewide French Transfer Articulation Agreement ensures that a student who begins an Associate of Arts degree at a Colorado community college will transfer 60 credits into the Bachelor of Arts in French degree program at a Colorado public four-year college (i.e., 60+60 agreement). The following four-year schools participate in this agreement:

- ♦ Colorado State University-Fort Collins
- ♦ Metropolitan State University of Denver
- ♦ University of Colorado at Boulder
- ♦ University of Colorado Denver
- ♦ University of Northern Colorado

Completion of the curriculum prescribed within this statewide articulation agreement does not guarantee admission to a participating receiving institution. Students must meet all admission and application requirements at the receiving institution including the submission of all required documentation by stated deadlines. Please note: students transferring to a University of Colorado institution (Boulder, Colorado Springs, Denver) must satisfy the CU System's MAPS (Minimum Academic Preparation Standards) requirement.

Only courses with grades of C- or above are guaranteed to transfer.

Admission to a receiving institution does not guarantee enrollment in a specific degree program. Some programs of receiving institutions have controlled entry due either to space limitations or academic requirements.

The credit and course transfer guarantees described in this agreement apply to the specific degree program covered by this agreement. The receiving institution will accept all applicable credits earned within ten years of transfer to the receiving institution. Credits earned more than ten years earlier will be evaluated on a course-by-course basis.

Because of the limitations just listed, students must consult with the Office of Admissions at the institution to which they are considering transferring.

COLORADO GUARANTEED TRANSFER PROGRAM FOR GENERAL EDUCATION (gtPATHWAYS)

After starting on your higher education pathway at any public college or university in Colorado, and, upon acceptance to another, you can transfer up to **31 credits** of successfully (C- or above) completed gtPATHWAYS (general education) coursework. These courses are guaranteed to transfer with you and count toward your general education core or graduation requirements for most, but not all, associate's or bachelor's degree programs. If you completed a course before it became effective as a gtPATHWAYS course, the institution to which you transfer has the option to accept it or not accept it.

For more information and the most updated list of gtPATHWAYS courses, including dates when individual courses became effective, visit <http://higher.ed.colorado.gov/Academics/Transfers/gtPathways/curriculum.html>. Guaranteed transfer courses that are not offered by FRCC, but are taken at other Colorado institutions, may apply to the appropriate GT category under Required General Education Courses.

If you complete an Associate of Arts or Associate of Science degree, 60 credits are guaranteed to transfer to a four-year school, once you are accepted for admission. You should be able to finish a bachelor's degree within another 60 credits. This is called a 60+60 transfer plan. Please note that some majors at the four-year schools require specific courses that must be completed as part of the A.A. or A.S. degree. Note also that some majors may exceed the typical 120 credits required to graduate. For more information on Colorado's 60+60 program, including transfer guides and a list of applicable degrees, visit <http://higher.ed.colorado.gov/Academics/Transfers/gtPathways/default.html>.

Additional notes regarding transfer:

Transferring credit to FRCC: Transfer courses will be evaluated for FRCC course equivalency and applied to degree requirements according to state and college policy. Completion of FRCC equivalent guaranteed transfer (gt) course requirements from any regionally accredited institution will meet FRCC degree requirements.

Credit for Prior Learning: Credit earned through prior learning methodologies (including CLEP, Advanced Placement, International Baccalaureate, articulation, military, corporate, challenge exam, portfolio credit, correspondence courses, or independent study) may meet FRCC degree requirements. A student who is awarded credit using standardized credit for prior learning assessments may be granted a degree with designation & a gt Pathways notation on their CCCS transcript. The receiving Colorado public institution will be obligated to honor the promise that completion of the AA/AS with designation and/or gt Pathway curriculum fulfills the lower division requirements as defined by the statewide articulation agreement. The receiving institution will evaluate those credits according to its standard policy. Students who wish to use credits awarded by exam to fulfill specific course requirements are responsible for consulting with the institution to which they are considering transferring to determine whether the credits they have been awarded by exam meet the standards of the receiving institution for specific course equivalents.

APPROVED ELECTIVE LIST FOR ASSOCIATE OF ARTS DEGREE

Elective credit for the Associate of Arts degree must be completed from the following list of approved prefixes and courses. While some of the following courses may be considered generally transferable, a student's major at a four-year college or university may limit what credit will be accepted and applied toward degree requirements at that institution. Selection of elective credits and course sequencing should be done in consultation with an advisor and the four-year institution to which you intend to transfer.

ACC	101, 121, 122
AGY	240
AIR	All AIR courses in this catalog
ANT	All ANT courses in this catalog
ARA	All ARA courses in this catalog
ARM	All ARM courses in this catalog
ART	All ART courses in this catalog
ASL	121, 122, 123, 221, 222
AST	All AST courses in this catalog
BIO	105, 106, 111, 112, 115, 160, 201, 202, 204, 208, 216, 221, 222
BUS	115, 203, 216, 217, 226
CHE	All CHE courses in this catalog
CHI	All CHI courses in this catalog
CIS	115, 118
COM	All COM courses in this catalog
CRJ	110, 111, 112, 125, 127, 135, 145, 205, 209, 210, 220, 230, 235, 236, 257
CSC	All CSC courses in this catalog
DAN	All DAN courses in this catalog <i>Note: DAN, OUT, & PED combined up to 3 credits cumulative. DAN 125 may be applied as an arts and humanities elective rather than a physical activities course.</i>
ECO	All ECO courses in this catalog
ENG	121 and above
ENV	101
ETH	All ETH courses in this catalog
FRE	All FRE courses in this catalog
GEO	All GEO courses in this catalog
GER	All GER courses in this catalog
GEY	All GEY courses in this catalog
HIS	All HIS courses in this catalog
HUM	All HUM courses in this catalog
HWE	100, 103, 110, 124
ITA	All ITA courses in this catalog
JOU	All JOU courses in this catalog
JPN	All JPN courses in this catalog
LIT	All LIT courses in this catalog
MAN	226
MAR	216, 220
MAT	120 or above
MET	All MET courses in this catalog
MGD	133, 221, 222, 233
MUS	All MUS courses in this catalog
OUT	All OUT courses in this catalog <i>Note: DAN, OUT, & PED combined up to 3 credits cumulative.</i>
PED	All PED courses in this catalog <i>Note: DAN, OUT, & PED combined up to 3 credits cumulative.</i>
PHI	All PHI courses in this catalog
PHY	All PHY courses in this catalog
POS	All POS courses in this catalog
PSY	All PSY courses in this catalog

RUS	All RUS courses in this catalog
SCI	All SCI courses in this catalog
SOC	All SOC courses in this catalog
SPA	All SPA courses in this catalog
THE	All THE courses in this catalog
WST	All WST courses in this catalog
GT	All Guaranteed Transfer courses in this catalog

Note: This list applies only to courses shown in the FRCC catalog, and to transfer credit which is equivalent to FRCC Catalog courses. Transfer courses which are identified with "999" course numbers (with the exception of Career Technical Electives) are also approved as elective credit.

Advising Sheet: Associate of Arts Degree, Designation in History for Transfer

Unofficial Degree Check Catalog Year: 2013-2014

Student Name: _____

Date: _____

Transferring credit into this institution may impact degree completion eligibility. Please see an advisor.

Required General Education Courses:

Guaranteed transfer courses that are not offered by FRCC, but are taken at other Colorado institutions, may apply to the appropriate GT category under Required General Education Courses. Completing COM courses is a Colorado Community College System requirement, not a gtPATHWAYS requirement.

Communication

(GT-CO1, GT-CO2, GT-CO3) (6 semester credits) Take one pair of courses.

- ENG 121 (3) and ENG 122 (3) OR
 ENG 122 (3) and ENG 201 (3) OR another GT-CO3 course

Mathematics

(GT-MA1) (3 semester credits) Take one course.

Credits over 3 will be applied to elective category.

- MAT 120 (4) MAT 121 (4) MAT 122 (3)
 MAT 123 (4) MAT 125 (4) MAT 135 (3)
 MAT 166 (5) MAT 201 (5) MAT 202 (5)
 MAT 203 (4) MAT 204 (5) MAT 265 (3)

Natural & Physical Sciences

(GT-SC1, GT-SC2) (7 semester credits) Take two courses.

Credits over 7 will be applied to elective category.

- AGY 240 (4) AST 101 (4) AST 102 (4)
 BIO 105 (4) BIO 111 (5) BIO 112 (5)
 BIO 201 (4) BIO 202 (4) BIO 204 (4)
 BIO 208 (4) BIO 221 (5)
 CHE 101 (5) CHE 102 (5) CHE 105 (5)
 CHE 111 (5) CHE 112 (5) ENV 101 (4)
 GEO 111 (4) GEO 112 (4) GEY 111 (4)
 GEY 112 (4) GEY135 (4) MET 150 (4)
 PHY 105 (4) PHY 107 (4) PHY 111 (5)

-
- PHY 112 (5) PHY 211 (5) PHY 212 (5)
 SCI 155 (4) SCI 156 (4)
-

Arts & Humanities, History, and Social & Behavioral Sciences

(18 semester credits)

Arts & Humanities

(9 semester credits)

Take nine credits from any of the four GT Arts & Humanities categories (GT-AH1, GT-AH2, GT-AH3, or GT-AH4)

Arts (GT-AH1)

-
- ART 110 (3) ART 111 (3) ART 112 (3)
 ART 207 (3) DAN 125 (3) MUS 120 (3)
 MUS 121 (3) MUS 122 (3) MUS 123 (3)
 MUS 125 (3) THE 105 (3) THE 211 (3)
 THE 212 (3)
-

Literature & Humanities (GT-AH2)

-
- HUM 115 (3) HUM 121 (3) HUM 122 (3)
 HUM 123 (3) LIT 115 (3) LIT 201 (3)
 LIT 202 (3) LIT 205 (3) LIT 211 (3)
 LIT 212 (3) LIT 221 (3) LIT 222 (3)
 LIT 225 (3) LIT 259 (3) LIT 268 (3)
-

Ways of Thinking (GT-AH3)

-
- PHI 111 (3) PHI 112 (3) PHI 113 (3)
 PHI 114 (3) PHI 214 (3) PHI 218 (3)
 PHI 220 (3)
-

Foreign Languages (GT-AH4)

-
- FRE 211 (3) FRE 212 (3) GER 211 (3)
 GER 212 (3) ITA 211 (3) ITA 212 (3)
 JPN 211 (3) JPN 212 (3) RUS 211 (3)
 RUS 212 (3) SPA 211 (3) SPA 212 (3)
-

History

(3 semester credits) Take one course.

History (GT-HI1)

- *HIS 101 (3) OR HIS 111 (3)

HIS 101 or HIS 111 may fulfill the History OR Additional Required Courses requirement below, **but not both**.

**Note: It is recommended that students planning to transfer to the University of Colorado at Boulder to take either HIS 101 above or HIS 102 below.*

Social & Behavioral Sciences

(6 semester credits) Take six credits from any of the three GT Social & Behavioral Sciences categories (GT-SS1, GT-SS2, GT-SS3).

Economics & Political Systems (GT-SS1)

-
- ECO 101 (3) ECO 201 (3) ECO 202 (3)
 ECO 245 (3) POS 105 (3) POS 111 (3)
 POS 125 (3) POS 205 (3) POS 215 (3)
 POS 225 (3)
-

Geography (GT-SS2)

- GEO 105 (3) GEO 106 (3)
-

Human Behavior, Culture, or Social Frameworks (GT-SS3)

-
- ANT 101 (3) ANT 102 (1) ANT 103 (1)
 ANT 104 (1) ANT 107 (3) ANT 111 (3)
 ANT 201 (3) ANT 215 (3) ANT 250 (3)
 COM 220 (3) ETH 200 (3)
 JOU 105 (3) PSY 101 (3) PSY 102 (3)
 PSY 205 (3) PSY 217 (3) PSY 226 (3)
 PSY 227 (3) PSY 235 (3) PSY 238 (3)
 PSY 249 (3) SOC 101 (3) SOC 102 (3)
 SOC 205 (3) SOC 207 (3) SOC 215 (3)
 SOC 216 (3) SOC 218 (3) SOC 220 (3)
 SOC 231 (3) SOC 237 (3) WST 200 (3)
 WST 225 (3) WST 240 (3) WST 249 (3)
-

SUBTOTAL: (34 semester credits required)

Additional Required Courses (15 semester credits)

*Note: Students planning to transfer to the University of Colorado at Boulder are encouraged to take HIS 102 to fulfill this requirement.

- COM 115 (3) OR COM 125 (3)
 *HIS 102 (3) OR HIS 112 (3)
 HIS 201 (3) HIS 202 (3)
 gtPathways HIS (3)
-

Choose one additional gtPathways History (GT-HI1) course from the following GT-HI1 list: HIS 101, 102, 111, 112, 207, 208, 215, 225, 236, 243, 244, 245, 247, 249, 255 or 260

Additional Electives (11 semester credits)

Additional 11 semester credits of electives selected from the Approved Electives List. Selection of elective credits should be done in consultation with an advisor and the four-year institution to which you intend to transfer.

Students planning to transfer to CSU-Ft. Collins are advised to complete at least two semesters of one college-level foreign language.

- _____

TOTAL (60 semester credits required)

IMPORTANT

- ♦ This degree worksheet is subject to change. Please work closely with an advisor to create your academic plan and ensure a successful experience at FRCC.
- ♦ To check your degree status, go to your eWOLF account, click on Degree Check, and review your progress toward your degree.
- ♦ An absence of 12 months constitutes a break in enrollment and invalidates this review and possibly this plan of study.

ADDITIONAL GRADUATION REQUIREMENTS FOR ASSOCIATE OF ARTS DEGREE

- ♦ No developmental courses may be applied to this degree.
- ♦ No more than 6 semester credits in independent study or internships in the prefixes following may be applied to this

degree.

- ♦ Minimum Grade Point Average 2.0; only grades of "C" or above may be applied to this degree.
- ♦ Minimum 15 degree-applicable semester credits must be completed at FRCC.
- ♦ Submit graduation application, transfer credits, and credit for prior learning to Admissions & Records by deadline and complete CAAP exam (see Class Schedule for dates).
- ♦ Continuing students who have not had a 12-month lapse in enrollment will be allowed to use the requirements listed in any catalog published while continuously attending the college.

STATEWIDE HISTORY TRANSFER ARTICULATION AGREEMENT

The Statewide History Transfer Articulation Agreement ensures that a student who begins an Associate of Arts degree at a Colorado community college will transfer 60 credits into the Bachelor of Arts in History degree program at a Colorado public four-year college (i.e., 60+60 agreement). The following four-year schools participate in this agreement:

- ♦ Adams State University
- ♦ Colorado Mesa University
- ♦ Colorado State University-Fort Collins
- ♦ Colorado State University-Pueblo
- ♦ Fort Lewis College
- ♦ Metropolitan State University of Denver
- ♦ University of Colorado at Boulder
- ♦ University of Colorado at Colorado Springs
- ♦ University of Colorado Denver
- ♦ University of Northern Colorado
- ♦ Western State Colorado University

Completion of the curriculum prescribed within this statewide articulation agreement does not guarantee admission to a participating receiving institution. Students must meet all admission and application requirements at the receiving institution including the submission of all required documentation by stated deadlines. Please note: students transferring to a University of Colorado institution (Boulder, Colorado Springs, Denver) must satisfy the CU System's MAPS (Minimum Academic Preparation Standards) requirement.

Only courses with grades of C- or above are guaranteed to transfer.

Admission to a receiving institution does not guarantee enrollment in a specific degree program. Some programs of receiving institutions have controlled entry due either to space limitations or academic requirements.

The credit and course transfer guarantees described in this agreement apply to the specific degree program covered by this agreement. The receiving institution will accept all applicable credits earned within ten years of transfer to the receiving institution. Credits earned more than ten years earlier will be evaluated on a course-by-course basis.

Because of the limitations just listed, students must consult with the Office of Admissions at the institution to which they are considering transferring.

COLORADO GUARANTEED TRANSFER PROGRAM FOR GENERAL EDUCATION (gtPATHWAYS)

After starting on your higher education pathway at any public college or university in Colorado, and, upon acceptance to another, you can transfer up to **31 credits** of successfully (C- or above) completed gtPATHWAYS (general education) coursework. These courses are guaranteed to transfer with

you and count toward your general education core or graduation requirements for most, but not all, associate's or bachelor's degree programs. If you completed a course before it became effective as a gtPATHWAYS course, the institution to which you transfer has the option to accept it or not accept it. For more information and the most updated list of gtPATHWAYS courses, including dates when individual courses became effective, visit <http://higherled.colorado.gov/Academics/Transfers/gtPathways/curriculum.html>. Guaranteed transfer courses that are not offered by FRCC, but are taken at other Colorado institutions, may apply to the appropriate GT category under Required General Education Courses.

If you complete an Associate of Arts or Associate of Science degree, 60 credits are guaranteed to transfer to a four-year school, once you are accepted for admission. You should be able to finish a bachelor's degree within another 60 credits. This is called a 60+60 transfer plan. Please note that some majors at the four-year schools require specific courses that must be completed as part of the A.A. or A.S. degree. Note also that some majors may exceed the typical 120 credits required to graduate. For more information on Colorado's 60+60 program, including transfer guides and a list of applicable degrees, visit <http://higherled.colorado.gov/Academics/Transfers/gtPathways/default.html>.

Additional notes regarding transfer:

Transferring credit to FRCC: Transfer courses will be evaluated for FRCC course equivalency and applied to degree requirements according to state and college policy. Completion of FRCC equivalent guaranteed transfer (gt) course requirements from any regionally accredited institution will meet FRCC degree requirements.

Credit for Prior Learning: Credit earned through prior learning methodologies (including CLEP, Advanced Placement, International Baccalaureate, articulation, military, corporate, challenge exam, portfolio credit, correspondence courses, or independent study) may meet FRCC degree requirements. A student who is awarded credit using standardized credit for prior learning assessments may be granted a degree with designation & a gt Pathways notation on their CCCS transcript. The receiving Colorado public institution will be obligated to honor the promise that completion of the AA/AS with designation and/or gt Pathway curriculum fulfills the lower division requirements as defined by the statewide articulation agreement. The receiving institution will evaluate those credits according to its standard policy. Students who wish to use credits awarded by exam to fulfill specific course requirements are responsible for consulting with the institution to which they are considering transferring to determine whether the credits they have been awarded by exam meet the standards of the receiving institution for specific course equivalents.

APPROVED ELECTIVE LIST FOR ASSOCIATE OF ARTS DEGREE

Elective credit for the Associate of Arts - History degree must be completed from the following list of approved prefixes and courses. While some of the following courses may be considered generally transferable, a student's major at a four-year college or university may limit what credit will be

accepted and applied toward degree requirements at that institution. Selection of elective credits and course sequencing should be done in consultation with an advisor and the four-year institution to which you intend to transfer.

ACC	101, 121, 122
AGY	240
AIR	All AIR courses in this catalog
ANT	All ANT courses in this catalog
ARA	All ARA courses in this catalog
ARM	All ARM courses in this catalog
ART	All ART courses in this catalog
ASL	121, 122, 123, 221, 222
AST	All AST courses in this catalog
BIO	105, 106, 111, 112, 115, 160, 201, 202, 204, 208, 216, 221, 222
BUS	115, 203, 216, 217, 226
CHE	All CHE courses in this catalog
CHI	All CHI courses in this catalog
CIS	115, 118
COM	All COM courses in this catalog
CRJ	110, 111, 112, 125, 127, 135, 145, 205, 209, 210, 220, 230, 235, 236, 257
CSC	All CSC courses in this catalog
DAN	All DAN courses in this catalog <i>Note: DAN, OUT & PED combined up to 3 credits cumulative. DAN 125 may be applied as an arts and humanities elective rather than a physical activities course.</i>
ECO	All ECO courses in this catalog
ENG	121 and above
ENV	101
ETH	All ETH courses in this catalog
FRE	All FRE courses in this catalog
GEO	All GEO courses in this catalog
GER	All GER courses in this catalog
GEY	All GEY courses in this catalog
HIS	All HIS courses in this catalog
HUM	All HUM courses in this catalog
HWE	100, 103, 110, 124
ITA	All ITA courses in this catalog
JOU	All JOU courses in this catalog
JPN	All JPN courses in this catalog
LIT	All LIT courses in this catalog
MAN	226
MAR	216, 220
MAT	120 or above
MET	All MET courses in this catalog
MGD	133, 221, 222, 233
MUS	All MUS courses in this catalog
OUT	All OUT courses in this catalog <i>Note: DAN, OUT, & PED combined up to 3 credits cumulative.</i>

PED	All PED courses in this catalog <i>Note: DAN, OUT, & PED combined up to 3 credits cumulative.</i>
PHI	All PHI courses in this catalog
PHY	All PHY courses in this catalog
POS	All POS courses in this catalog
PSY	All PSY courses in this catalog
RUS	All RUS courses in this catalog
SCI	All SCI courses in this catalog
SOC	All SOC courses in this catalog
SPA	All SPA courses in this catalog
THE	All THE courses in this catalog
WST	All WST courses in this catalog
GT	All Guaranteed Transfer courses in this catalog

Note: This list applies only to courses shown in the FRCC catalog, and to transfer credit which is equivalent to FRCC Catalog courses. Transfer courses which are identified with "999" course numbers (with the exception of Career Technical Electives) are also approved as elective credit.

Advising Sheet: Associate of Arts Degree, Designation in Political Science for Transfer

Unofficial Degree Check Catalog Year: 2013-2014

Student Name: _____

Date: _____

Transferring credit into this institution may impact degree completion eligibility. Please see an advisor.

Required General Education Courses:

Guaranteed transfer courses that are not offered by FRCC, but are taken at other Colorado institutions, may apply to the appropriate GT category under Required General Education Courses. Completing COM courses is a Colorado Community College System requirement, not a gtPATHWAYS requirement.

Written Communication

(GT-CO1, GT-CO2, GT-CO3) (6 semester credits) Take one pair of courses

- ENG 121 (3) and ENG 122 (3) OR
 ENG 122 (3) and ENG 201 (3) OR another GT-CO3 course

Mathematics

(GT-MAT1) (3 semester credits) Take one course. Credits over 3 will be applied to elective category.

MAT 120 (4) MAT 121 (4) MAT 122 (3)

MAT 123 (4) MAT 125 (4) MAT 135 (3)

MAT 166 (5) MAT 201 (5) MAT 202 (5)

MAT 203 (4) MAT 204 (5) MAT 265 (3)

Natural & Physical Sciences

(GT-SC1) (8 semester credits) Take two courses. Credits over 8 will be applied to elective category.

AGY 240 (4) AST 101 (4) AST 102 (4)

BIO 105 (4) BIO 111 (5) BIO 112 (5)

- | | | |
|--------------------------------------|--------------------------------------|--------------------------------------|
| <input type="checkbox"/> BIO 201 (4) | <input type="checkbox"/> BIO 202 (4) | <input type="checkbox"/> BIO 204 (4) |
| <input type="checkbox"/> BIO 208 (5) | <input type="checkbox"/> BIO 221 (5) | |
| <input type="checkbox"/> CHE 101 (5) | <input type="checkbox"/> CHE 102 (5) | <input type="checkbox"/> CHE 105 (5) |
| <input type="checkbox"/> CHE 111 (5) | <input type="checkbox"/> CHE 112 (5) | <input type="checkbox"/> ENV 101 (4) |
| <input type="checkbox"/> GEO 111 (4) | <input type="checkbox"/> GEO 112 (4) | <input type="checkbox"/> GEY 111 (4) |
| <input type="checkbox"/> GEY 112 (4) | <input type="checkbox"/> GEY 135 (4) | <input type="checkbox"/> MET 150 (4) |
| <input type="checkbox"/> PHY 105 (4) | <input type="checkbox"/> PHY 107 (4) | |
| <input type="checkbox"/> PHY 111 (5) | <input type="checkbox"/> PHY 112 (5) | <input type="checkbox"/> PHY 211 (5) |
| <input type="checkbox"/> PHY 212 (5) | <input type="checkbox"/> SCI 155 (4) | <input type="checkbox"/> SCI 156 (4) |

Arts & Humanities, History, and Social & Behavioral Sciences

Arts & Humanities

(6 semester credits)

Take any two courses from any of the four GT Arts & Humanities categories (GT-AH1, GT-AH2, GT-AH3, GT-AH4)

Arts (GT-AH1)

- | | | |
|--------------------------------------|--------------------------------------|--------------------------------------|
| <input type="checkbox"/> ART 110 (3) | <input type="checkbox"/> ART 111 (3) | <input type="checkbox"/> ART 112 (3) |
| <input type="checkbox"/> ART 207 (3) | <input type="checkbox"/> DAN 125 (3) | <input type="checkbox"/> MUS 120 (3) |
| <input type="checkbox"/> MUS 121 (3) | <input type="checkbox"/> MUS 122 (3) | <input type="checkbox"/> MUS 123 (3) |
| <input type="checkbox"/> MUS 125 (3) | <input type="checkbox"/> THE 105 (3) | <input type="checkbox"/> THE 211 (3) |
| <input type="checkbox"/> THE 212 (3) | | |

Literature & Humanities (GT-AH2)

- | | | |
|--------------------------------------|--------------------------------------|--------------------------------------|
| <input type="checkbox"/> HUM 115 (3) | <input type="checkbox"/> HUM 121 (3) | <input type="checkbox"/> HUM 122 (3) |
| <input type="checkbox"/> HUM 123 (3) | <input type="checkbox"/> LIT 115 (3) | <input type="checkbox"/> LIT 201 (3) |
| <input type="checkbox"/> LIT 202 (3) | <input type="checkbox"/> LIT 205 (3) | <input type="checkbox"/> LIT 211 (3) |
| <input type="checkbox"/> LIT 212 (3) | <input type="checkbox"/> LIT 221 (3) | <input type="checkbox"/> LIT 222 (3) |
| <input type="checkbox"/> LIT 225 (3) | <input type="checkbox"/> LIT 259 (3) | <input type="checkbox"/> LIT 268 (3) |

Ways of Thinking (GT-AH3)

- | | | |
|--------------------------------------|--------------------------------------|--------------------------------------|
| <input type="checkbox"/> PHI 111 (3) | <input type="checkbox"/> PHI 112 (3) | <input type="checkbox"/> PHI 113 (3) |
| <input type="checkbox"/> PHI 114 (3) | <input type="checkbox"/> PHI 214 (3) | <input type="checkbox"/> PHI 218 (3) |
| <input type="checkbox"/> PHI 220 (3) | | |

Foreign Languages (GT-AH4)

- | | | |
|--------------------------------------|--------------------------------------|--------------------------------------|
| <input type="checkbox"/> FRE 211 (3) | <input type="checkbox"/> FRE 212 (3) | <input type="checkbox"/> GER 211 (3) |
| <input type="checkbox"/> GER 212 (3) | <input type="checkbox"/> ITA 211 (3) | <input type="checkbox"/> ITA 212 (3) |
| <input type="checkbox"/> JPN 211 (3) | <input type="checkbox"/> JPN 212 (3) | <input type="checkbox"/> RUS 211 (3) |
| <input type="checkbox"/> RUS 212 (3) | <input type="checkbox"/> SPA 211 (3) | <input type="checkbox"/> SPA 212 (3) |

History

(3 semester credits) Take one course.

History (GT-HI1)

- | | | |
|--------------------------------------|--------------------------------------|--------------------------------------|
| <input type="checkbox"/> HIS 101 (3) | <input type="checkbox"/> HIS 102 (3) | <input type="checkbox"/> HIS 111 (3) |
| <input type="checkbox"/> HIS 112 (3) | <input type="checkbox"/> HIS 201 (3) | <input type="checkbox"/> HIS 202 (3) |
| <input type="checkbox"/> HIS 207 (3) | <input type="checkbox"/> HIS 208 (3) | <input type="checkbox"/> HIS 215 (3) |
| <input type="checkbox"/> HIS 225 (3) | <input type="checkbox"/> HIS 236 (3) | <input type="checkbox"/> HIS 243 (3) |
| <input type="checkbox"/> HIS 244 (3) | <input type="checkbox"/> HIS 245 (3) | <input type="checkbox"/> HIS 247 (3) |
| <input type="checkbox"/> HIS 249 (3) | <input type="checkbox"/> HIS 255 (3) | <input type="checkbox"/> HIS 260 (3) |

Social & Behavioral Sciences

(6 semester credits) Take both Economics courses

Economics & Political Systems (GT-SS1)

- ECO 201 (3) ECO 202 (3)

Additional Required Courses

(12 semester credits) Take all four courses. (GT-SS1)

- POS 105 (3)
 POS 111 (3)
 POS 205 (3)
 POS 225 (3)

Note: Additional Political Science (POS) courses beyond the 4 courses (12 semester credit hours) identified above MAY NOT count toward the Political Science major at the receiving 4-year institution.

SUBTOTAL: (44 semester credits required)

Additional Electives (16 semester credits)

Additional 16 semester credits of electives selected from the following Approved Electives List. Selection of elective credits should be done in consultation with an advisor and the four-year institution to which you intend to transfer.

- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____

TOTAL (60 semester credits required)

IMPORTANT

- ◆ This degree worksheet is subject to change. Please work closely with an advisor to create your academic plan and ensure a successful experience at FRCC.
- ◆ To check your degree status, go to your eWOLF account, click on Degree Check, and review your progress toward your degree.
- ◆ An absence of 12 months constitutes a break in enrollment and invalidates this review and possibly this plan of study.

ADDITIONAL GRADUATION REQUIREMENTS FOR ASSOCIATE OF ARTS DEGREE

- ◆ No developmental courses may be applied to this degree.
- ◆ No more than 6 semester credits in independent study or internships may be applied to this degree.
- ◆ Minimum Grade Point Average 2.0; only grades of "C" or above may be applied to this degree.
- ◆ Minimum 15 degree-applicable semester credits must be completed at FRCC.
- ◆ Submit graduation application, transfer credits, and credit for prior learning to Admissions & Records by published deadline and complete CAAP exam (see Class Schedule for dates).
- ◆ Continuing students who have not had a 12-month lapse in enrollment will be allowed to use the requirements listed in any catalog published while continuously attending the college.

STATEWIDE POLITICAL SCIENCE TRANSFER ARTICULATION AGREEMENT

The Statewide Political Science Transfer Articulation

Agreement ensures that a student who begins an Associate of Arts degree at a Colorado community college will transfer 60 credits into the Bachelor of Arts in Political Science degree program at a Colorado public four-year college (i.e., 60+60 agreement). The following four-year schools participate in this agreement:

- ◆ Adams State University
- ◆ Colorado Mesa University
- ◆ Colorado State University-Fort Collins
- ◆ Colorado State University-Pueblo
- ◆ Fort Lewis College
- ◆ Metropolitan State University of Denver
- ◆ University of Colorado at Boulder
- ◆ University of Colorado at Colorado Springs
- ◆ University of Colorado Denver
- ◆ University of Northern Colorado
- ◆ Western State Colorado University

Completion of the curriculum prescribed within this statewide articulation agreement does not guarantee admission to a participating receiving institution. Students must meet all admission and application requirements at the receiving institution including the submission of all required documentation by stated deadlines. Please note: students transferring to a University of Colorado institution (Boulder, Colorado Springs, Denver) must satisfy the CU System's MAPS (Minimum Academic Preparation Standards) requirement.

Only courses with grades of C- or above are guaranteed to transfer.

Admission to a receiving institution does not guarantee enrollment in a specific degree program. Some programs of receiving institutions have controlled entry due either to space limitations or academic requirements.

The credit and course transfer guarantees described in this agreement apply to the specific degree program covered by this agreement. Receiving institutions will evaluate application of the courses designated in this agreement to other degree programs on a course-by-course basis. The receiving institution will accept all applicable credits earned within ten years of transfer to the receiving institution. Credits earned more than ten years earlier will be evaluated on a course-by-course basis.

Because of the limitations just listed, students must consult with the Office of Admissions at the institution to which they are considering transferring.

COLORADO GUARANTEED TRANSFER PROGRAM FOR GENERAL EDUCATION (gtPATHWAYS)

After starting on your higher education pathway at any public college or university in Colorado, and, upon acceptance to another, you can transfer up to **31 credits** of successfully (C- or above) completed gtPATHWAYS (general education) coursework. These courses are guaranteed to transfer with you and count toward your general education core or graduation requirements for most, but not all, associate's or bachelor's degree programs. If you completed a course before it became effective as a gtPATHWAYS course, the institution to which you transfer has the option to accept it or not accept it. For more information and the most updated list of gtPATHWAYS courses, including dates when individual courses became effective, visit

<http://highered.colorado.gov/Academics/Transfers/gtPathways/curriculum.html>. Guaranteed transfer courses that are not offered by FRCC, but are taken at other Colorado institutions,

may apply to the appropriate GT category under Required General Education Courses.

If you complete an Associate of Arts or Associate of Science degree, 60 credits are guaranteed to transfer to a four-year school, once you are accepted for admission. You should be able to finish a bachelor's degree within another 60 credits. This is called a 60+60 transfer plan. Please note that some majors at the four-year schools require specific courses that must be completed as part of the A.A. or A.S. degree. Note also that some majors may exceed the typical 120 credits required to graduate. For more information on Colorado's 60+60 program, including transfer guides and a list of applicable degrees, visit <http://highered.colorado.gov/Academics/Transfers/gtPathway/default.html>.

Additional notes regarding transfer:

Transferring credit to FRCC: Transfer courses will be evaluated for FRCC course equivalency and applied to degree requirements according to state and college policy. Completion of FRCC equivalent guaranteed transfer (gt) course requirements from any regionally accredited institution will meet FRCC degree requirements.

Credit for Prior Learning: Credit earned through prior learning methodologies (including CLEP, Advanced Placement, International Baccalaureate, articulation, military, corporate, challenge exam, portfolio credit, correspondence courses, or independent study) may meet FRCC degree requirements. A student who is awarded credit using standardized credit for prior learning assessments may be granted a degree with designation & a gt Pathways notation on their CCCS transcript. The receiving Colorado public institution will be obligated to honor the promise that completion of the AA/AS with designation and/or gt Pathway curriculum fulfills the lower division requirements as defined by the statewide articulation agreement. The receiving institution will evaluate those credits according to its standard policy. Per SB 10-108 - All GT courses can be challenged by exam. Students who wish to use credits awarded by exam to fulfill specific course requirements are responsible for consulting with the institution to which they are considering transferring to determine whether the credits they have been awarded by exam meet the standards of the receiving institution for specific course equivalents.

APPROVED ELECTIVE LIST FOR ASSOCIATE OF ARTS DEGREE

Elective credit for the Associate of Arts degree must be completed from the following list of approved prefixes and courses. While some of the following courses may be considered generally transferable, a student's major at a four-year college or university may limit what credit will be accepted and applied toward degree requirements at that institution. Selection of elective credits and course sequencing should be done in consultation with an advisor and the four-year institution to which you intend to transfer.

ACC	101, 121, 122
AGY	240
AIR	All AIR courses in this catalog
ANT	All ANT courses in this catalog
ARA	All ARA courses in this catalog

ARM	All ARM courses in this catalog
ART	All ART courses in this catalog
ASL	121, 122, 123, 221, 222
AST	All AST courses in this catalog
BIO	105, 106, 111, 112, 115, 160, 201, 202, 204, 208, 216, 221, 222
BUS	115, 203, 216, 217, 226
CHE	All CHE courses in this catalog
CHI	All CHI courses in this catalog
CIS	115, 118
COM	All COM courses in this catalog
CRJ	110, 111, 112, 125, 127, 135, 145, 205, 209, 210, 220, 230, 235, 236, 257
CSC	All CSC courses in this catalog
DAN	All DAN courses in this catalog <i>Note: DAN, OUT & PED combined up to 3 credits cumulative. DAN 125 may be applied as an arts and humanities elective rather than a physical activities course.</i>
ECO	All ECO courses in this catalog
ENG	121 and above
ENV	101
ETH	All ETH courses in this catalog
FRE	All FRE courses in this catalog
GEO	All GEO courses in this catalog
GER	All GER courses in this catalog
GEY	All GEY courses in this catalog
HIS	All HIS courses in this catalog
HUM	All HUM courses in this catalog
HWE	100, 103, 110, 124
ITA	All ITA courses in this catalog
JOU	All JOU courses in this catalog
JPN	All JPN courses in this catalog
LIT	All LIT courses in this catalog
MAN	226
MAR	216, 220
MAT	120 or above
MET	All MET courses in this catalog
MGD	133, 221, 222, 233
MUS	All MUS courses in this catalog
OUT	All OUT courses in this catalog <i>Note: DAN, OUT & PED combined up to 3 credits cumulative.</i>
PED	All PED courses in this catalog <i>Note: DAN, OUT & PED combined up to 3 credits cumulative.</i>
PHI	All PHI courses in this catalog
PHY	All PHY courses in this catalog
POS	All POS courses in this catalog
PSY	All PSY courses in this catalog
RUS	All RUS courses in this catalog
SCI	All SCI courses in this catalog
SOC	All SOC courses in this catalog
SPA	All SPA courses in this catalog
THE	All THE courses in this catalog

WST	All WST courses in this catalog
GT	All Guaranteed Transfer courses in this catalog

Note: This list applies only to courses shown in the FRCC catalog, and to transfer credit which is equivalent to FRCC Catalog courses. Transfer courses which are identified with "999" course numbers (with the exception of Career Technical Electives) are also approved as elective credit.

Advising Sheet: Associate of Arts Degree, Designation in Psychology for Transfer

Unofficial Degree Check Catalog Year: 2013-2014

Student Name: _____

Date: _____

Transferring credit into this institution may impact degree completion eligibility. Please see an advisor.

Required General Education Courses:

Guaranteed transfer courses that are not offered by FRCC, but are taken at other Colorado institutions, may apply to the appropriate GT category under Required General Education Courses. Completing COM courses is a Colorado Community College System requirement, not a gtPATHWAYS requirement.

Communication

(GT-CO1, GT-CO2, GT-CO3) (6 semester credits) Take one pair of courses.

- ENG 121 (3) and ENG 122 (3) OR
 ENG 122 (3) and ENG 201 (3) OR another GT-CO3 course.

Mathematics

(GT-MA1) (4 semester credits)

Students must take MAT 121 to fulfill the requirement in this category.

- MAT 121 (4)

Natural & Physical Sciences

(GT-SC1) (8 semester credits)

Choose two GT-SC1 courses, one of which must be a **Biology** course selected from the BIO prefix choices shown here.

- | | | |
|---|---|---|
| <input type="checkbox"/> AGY 240 (4) | <input type="checkbox"/> AST 101 (4) | <input type="checkbox"/> AST 102 (4) |
| <input type="checkbox"/> BIO 105 (4) | <input type="checkbox"/> BIO 111 (5) | <input type="checkbox"/> BIO 112 (5) |
| <input type="checkbox"/> BIO 201 (4) | <input type="checkbox"/> BIO 202 (4) | <input type="checkbox"/> BIO 204 (4) |
| <input type="checkbox"/> BIO 208 (5) | <input type="checkbox"/> BIO 221 (5) | |
| <input type="checkbox"/> CHE 101 (5) | <input type="checkbox"/> CHE 102 (5) | <input type="checkbox"/> CHE 105 (5) |
| <input type="checkbox"/> CHE 111 (5) | <input type="checkbox"/> CHE 112 (5) | <input type="checkbox"/> ENV 101 (4) |
| <input type="checkbox"/> GEO 111 (4) | <input type="checkbox"/> GEO 112 (4) | <input type="checkbox"/> GEY 111 (4) |
| <input type="checkbox"/> GEY 112 (4) | <input type="checkbox"/> GEY 135 (4) | |
| <input type="checkbox"/> MET 150 (4) | <input type="checkbox"/> PHY 105 (4) | <input type="checkbox"/> PHY 107 (4) |
| <input type="checkbox"/> PHY 111 (5) | <input type="checkbox"/> PHY 112 (5) | <input type="checkbox"/> PHY 211 (5) |
| <input type="checkbox"/> PHY 212 (5) | <input type="checkbox"/> SCI 155 (4) | <input type="checkbox"/> SCI 156 (4) |

Arts & Humanities, History, and Social & Behavioral Sciences

(18 semester credits)

Arts & Humanities

(9 semester credits)

Do **not** take more than two courses from any one of the four GT Arts & Humanities categories (GT-AH1, GT-AH2, GT-AH3, or GT-AH4)

Arts (GT-AH1)

- | | | |
|--------------------------------------|--------------------------------------|--------------------------------------|
| <input type="checkbox"/> ART 110 (3) | <input type="checkbox"/> ART 111 (3) | <input type="checkbox"/> ART 112 (3) |
| <input type="checkbox"/> ART 207 (3) | <input type="checkbox"/> DAN 125 (3) | <input type="checkbox"/> MUS 120 (3) |
| <input type="checkbox"/> MUS 121 (3) | <input type="checkbox"/> MUS 122 (3) | <input type="checkbox"/> MUS 123 (3) |
| <input type="checkbox"/> MUS 125 (3) | <input type="checkbox"/> THE 105 (3) | <input type="checkbox"/> THE 211 (3) |
| <input type="checkbox"/> THE 212 (3) | | |

Literature & Humanities (GT-AH2)

- | | | |
|--------------------------------------|--------------------------------------|--------------------------------------|
| <input type="checkbox"/> HUM 115 (3) | <input type="checkbox"/> HUM 121 (3) | <input type="checkbox"/> HUM 122 (3) |
| <input type="checkbox"/> HUM 123 (3) | <input type="checkbox"/> LIT 115 (3) | <input type="checkbox"/> LIT 201 (3) |
| <input type="checkbox"/> LIT 202 (3) | <input type="checkbox"/> LIT 205 (3) | <input type="checkbox"/> LIT 211 (3) |
| <input type="checkbox"/> LIT 212 (3) | <input type="checkbox"/> LIT 221 (3) | <input type="checkbox"/> LIT 222 (3) |
| <input type="checkbox"/> LIT 225 (3) | <input type="checkbox"/> LIT 259 (3) | <input type="checkbox"/> LIT 268 (3) |

Ways of Thinking (GT-AH3)

- | | | |
|--------------------------------------|--------------------------------------|--------------------------------------|
| <input type="checkbox"/> PHI 111 (3) | <input type="checkbox"/> PHI 112 (3) | <input type="checkbox"/> PHI 113 (3) |
| <input type="checkbox"/> PHI 114 (3) | <input type="checkbox"/> PHI 214 (3) | <input type="checkbox"/> PHI 218 (3) |
| <input type="checkbox"/> PHI 220 (3) | | |

Foreign Languages (GT-AH4)

- | | | |
|--------------------------------------|--------------------------------------|--------------------------------------|
| <input type="checkbox"/> FRE 211 (3) | <input type="checkbox"/> FRE 212 (3) | <input type="checkbox"/> GER 211 (3) |
| <input type="checkbox"/> GER 212 (3) | <input type="checkbox"/> ITA 211 (3) | <input type="checkbox"/> ITA 212 (3) |
| <input type="checkbox"/> JPN 211 (3) | <input type="checkbox"/> JPN 212 (3) | <input type="checkbox"/> RUS 211 (3) |
| <input type="checkbox"/> RUS 212 (3) | <input type="checkbox"/> SPA 211 (3) | <input type="checkbox"/> SPA 212 (3) |

History

(3 semester credits) Take one course.

History (GT-HI1)

- | | | |
|--------------------------------------|--------------------------------------|--------------------------------------|
| <input type="checkbox"/> HIS 101 (3) | <input type="checkbox"/> HIS 102 (3) | <input type="checkbox"/> HIS 111 (3) |
| <input type="checkbox"/> HIS 112 (3) | <input type="checkbox"/> HIS 201 (3) | <input type="checkbox"/> HIS 202 (3) |
| <input type="checkbox"/> HIS 207 (3) | <input type="checkbox"/> HIS 208 (3) | <input type="checkbox"/> HIS 215 (3) |
| <input type="checkbox"/> HIS 225 (3) | <input type="checkbox"/> HIS 236 (3) | <input type="checkbox"/> HIS 243 (3) |
| <input type="checkbox"/> HIS 244 (3) | <input type="checkbox"/> HIS 245 (3) | <input type="checkbox"/> HIS 247 (3) |
| <input type="checkbox"/> HIS 249 (3) | <input type="checkbox"/> HIS 255 (3) | <input type="checkbox"/> HIS 260 (3) |

Social & Behavioral Sciences

(6 semester credits) From any of the three GT Social & Behavioral Sciences categories (GT-SS1, GT-SS2, GT-SS3).

Economics & Political Systems (GT-SS1)

- | | | |
|--------------------------------------|--------------------------------------|--------------------------------------|
| <input type="checkbox"/> ECO 101 (3) | <input type="checkbox"/> ECO 201 (3) | <input type="checkbox"/> ECO 202 (3) |
| <input type="checkbox"/> ECO 245 (3) | <input type="checkbox"/> POS 105 (3) | <input type="checkbox"/> POS 111 (3) |
| <input type="checkbox"/> POS 125 (3) | <input type="checkbox"/> POS 205 (3) | <input type="checkbox"/> POS 215 (3) |
| <input type="checkbox"/> POS 225 (3) | | |

Geography (GT-SS2)

- | | |
|--------------------------------------|--------------------------------------|
| <input type="checkbox"/> GEO 105 (3) | <input type="checkbox"/> GEO 106 (3) |
|--------------------------------------|--------------------------------------|

Human Behavior, Culture, or Social Frameworks (GT-SS3)

- | | | |
|--------------------------------------|--------------------------------------|--------------------------------------|
| <input type="checkbox"/> ANT 101 (3) | <input type="checkbox"/> ANT 102 (1) | <input type="checkbox"/> ANT 103 (1) |
| <input type="checkbox"/> ANT 104 (1) | <input type="checkbox"/> ANT 107 (3) | <input type="checkbox"/> ANT 111 (3) |
| <input type="checkbox"/> ANT 201 (3) | <input type="checkbox"/> ANT 215 (3) | <input type="checkbox"/> ANT 250 (3) |
| <input type="checkbox"/> COM 220 (3) | <input type="checkbox"/> ETH 200 (3) | <input type="checkbox"/> JOU 105 (3) |

- | | | |
|--------------------------------------|--------------------------------------|--------------------------------------|
| <input type="checkbox"/> PSY 205 (3) | <input type="checkbox"/> PSY 217 (3) | <input type="checkbox"/> PSY 226 (3) |
| <input type="checkbox"/> PSY 227 (3) | <input type="checkbox"/> PSY 235 (3) | <input type="checkbox"/> PSY 238 (3) |
| <input type="checkbox"/> PSY 249 (3) | <input type="checkbox"/> SOC 101 (3) | <input type="checkbox"/> SOC 102 (3) |
| <input type="checkbox"/> SOC 205 (3) | <input type="checkbox"/> SOC 207 (3) | <input type="checkbox"/> SOC 215 (3) |
| <input type="checkbox"/> SOC 216 (3) | <input type="checkbox"/> SOC 218 (3) | <input type="checkbox"/> SOC 220 (3) |
| <input type="checkbox"/> SOC 231 (3) | <input type="checkbox"/> SOC 237 (3) | <input type="checkbox"/> WST 200 (3) |
| <input type="checkbox"/> WST 225 (3) | <input type="checkbox"/> WST 240 (3) | <input type="checkbox"/> WST 249 (3) |

SUBTOTAL: (36 semester credits required)

Additional Required Courses (18 semester credits)

- | |
|--|
| <input type="checkbox"/> COM 115 (3) OR <input type="checkbox"/> COM 125 (3) |
| <input type="checkbox"/> PSY 101 (3) |
| <input type="checkbox"/> PSY 102 (3) |
| <input type="checkbox"/> gtPathways PSY (3) _____ |
| <input type="checkbox"/> gtPathways PSY (3) _____ |
| <input type="checkbox"/> gtPathways PSY (3) _____ |

Students must choose 9 credits of gtPathways PSY courses; for best choices, select from PSY courses listed here in Social & Behavioral Sciences.

Additional Electives (6-8 semester credits)

Additional 6-8 semester credits of electives selected from the Approved Electives List to equal 60 credits for the degree. Selection of elective credits should be done in consultation with an advisor and the four-year institution to which you intend to transfer.

- | |
|--------------------------------|
| <input type="checkbox"/> _____ |
| <input type="checkbox"/> _____ |
| <input type="checkbox"/> _____ |
| <input type="checkbox"/> _____ |
| <input type="checkbox"/> _____ |
| <input type="checkbox"/> _____ |

TOTAL (60 semester credits required)

IMPORTANT

- ♦ This degree worksheet is subject to change. Please work closely with an advisor to create your academic plan and ensure a successful experience at FRCC.
- ♦ To check your degree status, go to your eWOLF account, click on Degree Check, and review your progress toward your degree.
- ♦ An absence of 12 months constitutes a break in enrollment and invalidates this review and possibly this plan of study.

ADDITIONAL GRADUATION REQUIREMENTS FOR ASSOCIATE OF ARTS DEGREE

- ♦ No developmental courses may be applied to this degree.
- ♦ No more than 6 semester credits in independent study or internships in the prefixes following may be applied to this degree.
- ♦ Minimum Grade Point Average 2.0; only grades of "C" or above may be applied to this degree.
- ♦ Minimum 15 degree-applicable semester credits must be completed at FRCC.
- ♦ Submit graduation application, transfer credits, and credit for prior learning to Admissions & Records by deadline and complete CAAP exam (see Class Schedule for dates).
- ♦ Continuing students who have not had a 12-month lapse in enrollment will be allowed to use the requirements listed in any catalog published while continuously attending the

college.

STATEWIDE PSYCHOLOGY TRANSFER ARTICULATION AGREEMENT

The Statewide Psychology Transfer Articulation Agreement ensures that a student who begins an Associate of Arts degree at a Colorado community college will transfer 60 credits into the Bachelor of Arts in Psychology degree program at a Colorado public four-year college (i.e., 60+60 agreement). The following four-year schools participate in this agreement:

- ◆ Adams State University
- ◆ Colorado Mesa University
- ◆ Colorado State University-Fort Collins
- ◆ Colorado State University-Pueblo
- ◆ Fort Lewis College
- ◆ Metropolitan State University of Denver
- ◆ University of Colorado at Boulder
- ◆ University of Colorado at Colorado Springs
- ◆ University of Colorado Denver
- ◆ University of Northern Colorado
- ◆ Western State Colorado University

Completion of the curriculum prescribed within this statewide articulation agreement does not guarantee admission to a participating receiving institution. Students must meet all admission and application requirements at the receiving institution including the submission of all required documentation by stated deadlines. Please note: students transferring to a University of Colorado institution (Boulder, Colorado Springs, Denver) must satisfy the CU System's MAPS (Minimum Academic Preparation Standards) requirement.

Only courses with grades of C- or above are guaranteed to transfer.

Admission to a receiving institution does not guarantee enrollment in a specific degree program. Some programs of receiving institutions have controlled entry due either to space limitations or academic requirements.

The credit and course transfer guarantees described in this agreement apply to the specific degree program covered by this agreement. The receiving institution will accept all applicable credits earned within ten years of transfer to the receiving institution. Credits earned more than ten years earlier will be evaluated on a course-by-course basis.

Because of the limitations just listed, students must consult with the Office of Admissions at the institution to which they are considering transferring.

COLORADO GUARANTEED TRANSFER PROGRAM FOR GENERAL EDUCATION (gtPATHWAYS)

After starting on your higher education pathway at any public college or university in Colorado, and, upon acceptance to another, you can transfer up to **31 credits** of successfully (C- or above) completed gtPATHWAYS (general education) coursework. These courses are guaranteed to transfer with you and count toward your general education core or graduation requirements for most, but not all, associate's or bachelor's degree programs. If you completed a course before it became effective as a gtPATHWAYS course, the institution to which you transfer has the option to accept it or not accept it. For more information and the most updated list of gtPATHWAYS courses, including dates when individual courses became effective, visit <http://higher.ed.colorado.gov/Academics/Transfers/gtPathway/s/curriculum.html>. Guaranteed transfer courses that are not offered by FRCC, but are taken at other Colorado institutions,

may apply to the appropriate GT category under Required General Education Courses.

If you complete an Associate of Arts or Associate of Science degree, 60 credits are guaranteed to transfer to a four-year school, once you are accepted for admission. You should be able to finish a bachelor's degree within another 60 credits. This is called a 60+60 transfer plan. Please note that some majors at the four-year schools require specific courses that must be completed as part of the A.A. or A.S. degree. Note also that some majors may exceed the typical 120 credits required to graduate. For more information on Colorado's 60+60 program, including transfer guides and a list of applicable degrees, visit <http://higher.ed.colorado.gov/Academics/Transfers/gtPathway/s/default.html>.

Additional notes regarding transfer:

Transferring credit to FRCC: Transfer courses will be evaluated for FRCC course equivalency and applied to degree requirements according to state and college policy. Completion of FRCC equivalent guaranteed transfer (gt) course requirements from any regionally accredited institution will meet FRCC degree requirements.

Credit for Prior Learning: Credit earned through prior learning methodologies (including CLEP, Advanced Placement, International Baccalaureate, articulation, military, corporate, challenge exam, portfolio credit, correspondence courses, or independent study) may meet FRCC degree requirements. A student who is awarded credit using standardized credit for prior learning assessments may be granted a degree with designation & a gt Pathways notation on their CCCS transcript. The receiving Colorado public institution will be obligated to honor the promise that completion of the AA/AS with designation and/or gt Pathway curriculum fulfills the lower division requirements as defined by the statewide articulation agreement. The receiving institution will evaluate those credits according to its standard policy. Students who wish to use credits awarded by exam to fulfill specific course requirements are responsible for consulting with the institution to which they are considering transferring to determine whether the credits they have been awarded by exam meet the standards of the receiving institution for specific course equivalents.

APPROVED ELECTIVE LIST FOR ASSOCIATE OF ARTS DEGREE

Elective credit for the Associate of Arts - Psychology degree must be completed from the following list of approved prefixes and courses. While some of the following courses may be considered generally transferable, a student's major at a four-year college or university may limit what credit will be accepted and applied toward degree requirements at that institution. Selection of elective credits and course sequencing should be done in consultation with an advisor and the four-year institution to which you intend to transfer.

ACC	101, 121, 122
AGY	240
AIR	All AIR courses in this catalog
ANT	All ANT courses in this catalog
ARA	All ARA courses in this catalog

ARM	All ARM courses in this catalog
ART	All ART courses in this catalog
ASL	121, 122, 123, 221, 222
AST	All AST courses in this catalog
BIO	105, 106, 111, 112, 115, 160, 201, 202, 204, 208, 216, 221, 222
BUS	115, 203, 216, 217, 226
CHE	All CHE courses in this catalog
CHI	All CHI courses in this catalog
CIS	115, 118
COM	All COM courses in this catalog
CRJ	110, 111, 112, 125, 127, 135, 145, 205, 209, 210, 220, 230, 235, 236, 257
CSC	All CSC courses in this catalog
DAN	All DAN courses in this catalog <i>Note: DAN, OUT, & PED combined up to 3 credits cumulative. DAN 125 may be applied as an arts and humanities elective rather than a physical activities course.</i>
ECO	All ECO courses in this catalog
ENG	121 and above
ENV	101
ETH	All ETH courses in this catalog
FRE	All FRE courses in this catalog
GEO	All GEO courses in this catalog
GER	All GER courses in this catalog
GEY	All GEY courses in this catalog
HIS	All HIS courses in this catalog
HUM	All HUM courses in this catalog
HWE	100, 103, 110, 124
ITA	All ITA courses in this catalog
JOU	All JOU courses in this catalog
JPN	All JPN courses in this catalog
LIT	All LIT courses in this catalog
MAN	226
MAR	216, 220
MAT	120 or above
MET	All MET courses in this catalog
MGD	133, 221, 222, 233
MUS	All MUS courses in this catalog
OUT	All OUT courses in this catalog <i>Note: DAN, OUT & PED combined up to 3 credits cumulative.</i>
PED	All PED courses in this catalog <i>Note: DAN, OUT & PED combined up to 3 credits cumulative.</i>
PHI	All PHI courses in this catalog
PHY	All PHY courses in this catalog
POS	All POS courses in this catalog
PSY	All PSY courses in this catalog
RUS	All RUS courses in this catalog
SCI	All SCI courses in this catalog
SOC	All SOC courses in this catalog
SPA	All SPA courses in this catalog
THE	All THE courses in this catalog

WST	All WST courses in this catalog
GT	All Guaranteed Transfer courses in this catalog

Note: This list applies only to courses shown in the FRCC catalog, and to transfer credit which is equivalent to FRCC Catalog courses. Transfer courses which are identified with "999" course numbers (with the exception of Career Technical Electives) are also approved as elective credit.

Advising Sheet: Associate of Arts Degree, Designation in Sociology for Transfer

Unofficial Degree Check Catalog Year: 2013-2014

Student Name: _____

Date: _____

Transferring credit into this institution may impact degree completion eligibility. Please see an advisor.

Required General Education Courses:

Guaranteed transfer courses that are not offered by FRCC, but are taken at other Colorado institutions, may apply to the appropriate GT category under Required General Education Courses. Completing COM courses is a Colorado Community College System requirement, not a gtPATHWAYS requirement.

Written Communication

(GT-CO1, GT-CO2, GT-CO3) (6 semester credits) Take one pair of courses

- ENG 121 (3) and ENG 122 (3) OR
 ENG 122 (3) and ENG 201 (3) OR another GT-CO3 course

Mathematics

(GT-MA1) (3-4 semester credits) Take one course. Credits over 3 will be applied to elective category.

- MAT 121 (4) OR MAT 135 (3)

Natural & Physical Sciences

(GT-SC1) (8 semester credits) Take two courses. Credits over 8 will be applied to elective category.

- | | | |
|--------------------------------------|--------------------------------------|--------------------------------------|
| <input type="checkbox"/> AGY 240 (4) | <input type="checkbox"/> AST 101 (4) | <input type="checkbox"/> AST 102 (4) |
| <input type="checkbox"/> BIO 105 (4) | <input type="checkbox"/> BIO 111 (5) | <input type="checkbox"/> BIO 112 (5) |
| <input type="checkbox"/> BIO 201 (4) | <input type="checkbox"/> BIO 202 (4) | <input type="checkbox"/> BIO 204 (4) |
| <input type="checkbox"/> BIO 208 (5) | <input type="checkbox"/> BIO 221 (5) | |
| <input type="checkbox"/> CHE 101 (5) | <input type="checkbox"/> CHE 102 (5) | <input type="checkbox"/> CHE 105 (5) |
| <input type="checkbox"/> CHE 111 (5) | <input type="checkbox"/> CHE 112 (5) | <input type="checkbox"/> ENV 101 (4) |
| <input type="checkbox"/> GEO 111 (4) | <input type="checkbox"/> GEO 112 (4) | <input type="checkbox"/> GEY 111 (4) |
| <input type="checkbox"/> GEY 112 (4) | <input type="checkbox"/> GEY 135 (4) | <input type="checkbox"/> MET 150 (4) |
| <input type="checkbox"/> PHY 105 (4) | <input type="checkbox"/> PHY 107 (4) | |
| <input type="checkbox"/> PHY 111 (5) | <input type="checkbox"/> PHY 112 (5) | <input type="checkbox"/> PHY 211 (5) |
| <input type="checkbox"/> PHY 212 (5) | <input type="checkbox"/> SCI 155 (4) | <input type="checkbox"/> SCI 156 (4) |

Arts & Humanities, History, and Social & Behavioral Sciences

(18 credits total)

Arts & Humanities

(9 semester credits)

Take any three courses from any of the four GT Arts &

FRONT RANGE COMMUNITY COLLEGE

Humanities categories (GT-AH1, GT-AH2, GT-AH3, GT-AH4)

Arts (GT-AH1)

- ART 110 (3) ART 111 (3) ART 112 (3)
- ART 207 (3) DAN 125 (3) MUS 120 (3)
- MUS 121 (3) MUS 122 (3) MUS 123 (3)
- MUS 125 (3) THE 105 (3) THE 211 (3)
- THE 212 (3)

Literature & Humanities (GT-AH2)

- HUM 115 (3) HUM 121 (3) HUM 122 (3)
- HUM 123 (3) LIT 115 (3) LIT 201 (3)
- LIT 202 (3) LIT 205 (3) LIT 211 (3)
- LIT 212 (3) LIT 221 (3) LIT 222 (3)
- LIT 225 (3) LIT 259 (3) LIT 268 (3)

Ways of Thinking (GT-AH3)

- PHI 111 (3) PHI 112 (3) PHI 113 (3)
- PHI 114 (3) PHI 214 (3) PHI 218 (3)
- PHI 220 (3)

Foreign Languages (GT-AH4)

- FRE 211 (3) FRE 212 (3) GER 211 (3)
- GER 212 (3) ITA 211 (3) ITA 212 (3)
- JPN 211 (3) JPN 212 (3) RUS 211 (3)
- RUS 212 (3) SPA 211 (3) SPA 212 (3)

History

(3 semester credits) Take one course.

History (GT-HI1)

- HIS 101 (3) HIS 102 (3) HIS 111 (3)
- HIS 112 (3) HIS 201 (3) HIS 202 (3)
- HIS 207 (3) HIS 208 (3) HIS 215 (3)
- HIS 225 (3) HIS 236 (3) HIS 243 (3)
- HIS 244 (3) HIS 245 (3) HIS 247 (3)
- HIS 249 (3) HIS 255 (3) HIS 260 (3)

Social & Behavioral Sciences

(6 semester credits) Take any two courses from any of the three Social & Behavioral Sciences categories. (GT-SS1, GT-SS2, GT-SS3)

Economics & Political Systems (GT-SS1)

- ECO 101 (3) ECO 201 (3) ECO 202 (3)
- ECO 245 (3) POS 105 (3) POS 111 (3)
- POS 125 (3) POS 205 (3) POS 215 (3)
- POS 225 (3)

Geography (GT-SS2)

- GEO 105 (3) GEO 106 (3)

Human Behavior, Culture or Social Frameworks (GT-SS3)

- ANT 101 (3) ANT 102 (1) ANT 103 (1)
- ANT 104 (1) ANT 107 (3) ANT 111 (3)
- ANT 201 (3) ANT 215 (3) ANT 250 (3)

- COM 220 (3)

- ETH 200 (3) JOU 105 (3) PSY 101 (3)
- PSY 102 (3) PSY 205 (3) PSY 217 (3)
- PSY 226 (3) PSY 227 (3) PSY 235 (3)
- PSY 238 (3) PSY 249 (3) SOC 205 (3)
- SOC 207 (3) SOC 215 (3) SOC 216 (3)
- SOC 218 (3) SOC 220 (3) SOC 231 (3)
- SOC 237 (3) WST 200 (3)

- WST 225 (3) WST 240 (3) WST 249 (3)

SUBTOTAL: (35-36 semester credits required)

Additional Required Courses

(18 additional credits):

(3 semester credits) Take one course:

- COM 115 (3) OR COM 125 (3)

Note: Completing COM courses is a Colorado Community College System requirement, not a gtPATHWAYS requirement

(6 semester credits) Take both courses:

- SOC 101 (3) and SOC 102 (3)

(9 semester credits) Take three additional SOC (GT-SS3) courses:

- _____
- _____
- _____

Note: Individual SOC courses may fulfill the Social & Behavioral Sciences requirement above OR the Additional SOC requirements here but cannot count in both places.

Additional Electives (6-7 semester credits)

Additional semester credits of electives selected from the following Approved Electives List. Additional SOC courses beyond the five courses identified above may not count toward the Sociology major at the receiving 4-year institution. Selection of elective credits should be done in consultation with an advisor and the four-year institution to which you intend to transfer.

- _____
- _____
- _____
- _____
- _____
- _____

TOTAL (60 semester credits required)

IMPORTANT

- ◆ This degree worksheet is subject to change. Please work closely with an advisor to create your academic plan and ensure a successful experience at FRCC.
- ◆ To check your degree status, go to your eWOLF account, click on Degree Check, and review your progress toward your degree.
- ◆ An absence of 12 months constitutes a break in enrollment and invalidates this review and possibly this plan of study.

ADDITIONAL GRADUATION REQUIREMENTS FOR

ASSOCIATE OF ARTS DEGREE

- ◆ No developmental courses may be applied to this degree.
- ◆ No more than 6 semester credits in independent study or internships may be applied to this degree.
- ◆ Minimum Grade Point Average 2.0; only grades of "C" or above may be applied to this degree.
- ◆ Minimum 15 degree-applicable semester credits must be completed at FRCC.
- ◆ Submit graduation application, transfer credits, and credit for prior learning to Admissions & Records by published deadline and complete CAAP exam (see Class Schedule for dates).
- ◆ Continuing students who have not had a 12-month lapse in enrollment will be allowed to use the requirements listed in any catalog published while continuously attending the college.

STATEWIDE SOCIOLOGY TRANSFER ARTICULATION AGREEMENT

The Statewide Sociology Transfer Articulation Agreement ensures that a student who begins an Associate of Arts degree at a Colorado community college will transfer 60 credits into the Bachelor of Arts in Sociology degree program at a Colorado public four-year college (i.e., 60+60 agreement). The following four-year schools participate in this agreement:

- ◆ Adams State University
- ◆ Colorado Mesa University
- ◆ Colorado State University-Fort Collins
- ◆ Colorado State University-Pueblo
- ◆ Fort Lewis College
- ◆ Metropolitan State University of Denver
- ◆ University of Colorado at Boulder
- ◆ University of Colorado at Colorado Springs
- ◆ University of Colorado Denver
- ◆ University of Northern Colorado
- ◆ Western State Colorado University

Completion of the curriculum prescribed within this statewide articulation agreement does not guarantee admission to a participating receiving institution. Students must meet all admission and application requirements at the receiving institution including the submission of all required documentation by stated deadlines. Please note: students transferring to a University of Colorado institution (Boulder, Colorado Springs, Denver) must satisfy the CU System's MAPS (Minimum Academic Preparation Standards) requirement. Only courses with grades of C- or above are guaranteed to transfer.

Admission to a receiving institution does not guarantee enrollment in a specific degree program. Some programs of receiving institutions have controlled entry due either to space limitations or academic requirements.

The credit and course transfer guarantees described in this agreement apply to the specific degree program covered by this agreement. The receiving institution will accept all applicable credits earned within ten years of transfer to the receiving institution. Credits earned more than ten years earlier will be evaluated on a course-by-course basis.

Because of the limitations just listed, students must consult with the Office of Admissions at the institution to which they are considering transferring.

COLORADO GUARANTEED TRANSFER PROGRAM FOR GENERAL EDUCATION (gtPATHWAYS)

After starting on your higher education pathway at any public college or university in Colorado, and, upon acceptance to another, you can transfer up to **31 credits** of successfully (C- or above) completed gtPATHWAYS (general education) coursework. These courses are guaranteed to transfer with you and count toward your general education core or graduation requirements for most, but not all, associate's or bachelor's degree programs. If you completed a course before it became effective as a gtPATHWAYS course, the institution to which you transfer has the option to accept it or not accept it. For more information and the most updated list of gtPATHWAYS courses, including dates when individual courses became effective, visit <http://higher.ed.colorado.gov/Academics/Transfers/gtPathways/curriculum.html>. Guaranteed transfer courses that are not offered by FRCC, but are taken at other Colorado institutions, may apply to the appropriate GT category under Required General Education Courses.

If you complete an Associate of Arts or Associate of Science degree, 60 credits are guaranteed to transfer to a four-year school, once you are accepted for admission. You should be able to finish a bachelor's degree within another 60 credits. This is called a 60+60 transfer plan. Please note that some majors at the four-year schools require specific courses that must be completed as part of the A.A. or A.S. degree. Note also that some majors may exceed the typical 120 credits required to graduate. For more information on Colorado's 60+60 program, including transfer guides and a list of applicable degrees, visit <http://higher.ed.colorado.gov/Academics/Transfers/gtPathways/default.html>.

Additional notes regarding transfer:

Transferring credit to FRCC: Transfer courses will be evaluated for FRCC course equivalency and applied to degree requirements according to state and college policy. Completion of FRCC equivalent guaranteed transfer (gt) course requirements from any regionally accredited institution will meet FRCC degree requirements.

Credit for Prior Learning: Credit earned through prior learning methodologies (including CLEP, Advanced Placement, International Baccalaureate, articulation, military, corporate, challenge exam, portfolio credit, correspondence courses, or independent study) may meet FRCC degree requirements. A student who is awarded credit using standardized credit for prior learning assessments may be granted a degree with designation and a gtPathways notation on their CCCS transcript. The receiving Colorado public institution will be obligated to honor the promise that completion of the AA/AS with designation and/or gtPathways curriculum fulfills the lower division requirements as defined by the statewide articulation agreement. The receiving institution will evaluate those credits according to its standard policy. Per SB 10-108 - All GT courses can be challenged by exam. Students who wish to use credits awarded by exam to fulfill specific course requirements are responsible for consulting with the institution to which they are considering transferring to determine whether the credits they have been awarded by exam meet the standards of the receiving institution for specific course equivalents. The receiving institution will accept all applicable credits earned within ten years of transfer to the receiving institution. Credits earned

more than ten years earlier will be evaluated on a course-by-course basis.

APPROVED ELECTIVE LIST FOR ASSOCIATE OF ARTS DEGREE

Elective credit for the Associate of Arts degree must be completed from the following list of approved prefixes and courses. While some of the following courses may be considered generally transferable, a student's major at a four-year college or university may limit what credit will be accepted and applied toward degree requirements at that institution. Selection of elective credits and course sequencing should be done in consultation with an advisor and the four-year institution to which you intend to transfer.

ACC	101, 121, 122
AGY	240
AIR	All AIR courses in this catalog
ANT	All ANT courses in this catalog
ARA	All ARA courses in this catalog
ARM	All ARM courses in this catalog
ART	All ART courses in this catalog
ASL	121, 122, 123, 221, 222
AST	All AST courses in this catalog
BIO	105, 106, 111, 112, 115, 160, 201, 202, 204, 208, 216, 221, 222
BUS	115, 203, 216, 217, 226
CHE	All CHE courses in this catalog
CHI	All CHI courses in this catalog
CIS	115, 118
COM	All COM courses in this catalog
CRJ	110, 111, 112, 125, 127, 135, 145, 205, 209, 210, 220, 230, 235, 236, 257
CSC	All CSC courses in this catalog
DAN	All DAN courses in this catalog <i>Note: DAN, OUT & PED combined up to 3 credits cumulative. DAN 125 may be applied as an arts and humanities elective rather than a physical activities course.</i>
ECO	All ECO courses in this catalog
ENG	121 and above
ENV	101
ETH	All ETH courses in this catalog
FRE	All FRE courses in this catalog
GEO	All GEO courses in this catalog
GER	All GER courses in this catalog
GEY	All GEY courses in this catalog
HIS	All HIS courses in this catalog
HUM	All HUM courses in this catalog
HWE	100, 103, 110, 124
ITA	All ITA courses in this catalog
JOU	All JOU courses in this catalog
JPN	All JPN courses in this catalog
LIT	All LIT courses in this catalog
MAN	226
MAR	216, 220
MAT	120 or above

MET	All MET courses in this catalog
MGD	133, 221, 222, 233
MUS	All MUS courses in this catalog
OUT	All OUT courses in this catalog <i>Note: DAN, OUT & PED combined up to 3 credits cumulative.</i>
PED	All PED courses in this catalog <i>Note: DAN, OUT & PED combined up to 3 credits cumulative.</i>
PHI	All PHI courses in this catalog
PHY	All PHY courses in this catalog
POS	All POS courses in this catalog
PSY	All PSY courses in this catalog
RUS	All RUS courses in this catalog
SCI	All SCI courses in this catalog
SOC	All SOC courses in this catalog
SPA	All SPA courses in this catalog
THE	All THE courses in this catalog
WST	All WST courses in this catalog
GT	All Guaranteed Transfer courses in this catalog

Note: This list applies only to courses shown in the FRCC catalog, and to transfer credit which is equivalent to FRCC Catalog courses. Transfer courses which are identified with "999" course numbers (with the exception of Career Technical Electives) are also approved as elective credit.

Advising Sheet: Associate of Arts Degree, Designation in Spanish for Transfer

Unofficial Degree Check Catalog Year: 2013-2014

Student Name: _____

Date: _____

Transferring credit into this institution may impact degree completion eligibility. Please see an advisor.

Required General Education Courses:

Guaranteed transfer courses that are not offered by FRCC, but are taken at other Colorado institutions, may apply to the appropriate GT category under Required General Education Courses. Completing COM courses is a Colorado Community College System requirement, not a gtPATHWAYS requirement.

Communication

(GT-CO1, GT-CO2, GT-CO3) (6 semester credits) Take one pair of courses.

- ENG 121 (3) and ENG 122 (3) OR
- ENG 122 (3) and ENG 201 (3) OR another GT-CO3 course

Mathematics

(GT-MA1) (3 semester credits) Take one course.

Credits over 3 will be applied to elective category.

- MAT 120 (4) MAT 121 (4) MAT 122 (3)
- MAT 123 (4) MAT 125 (4) MAT 135 (3)
- MAT 166 (5) MAT 201 (5) MAT 202 (5)
- MAT 203 (4) MAT 204 (5) MAT 265 (3)

Natural & Physical Sciences

(GT-SC1, GT-SC2) (7 semester credits)* Credits over 7 will be applied to elective category.

*One of these courses must have the required laboratory (GT-SC1).

<input type="checkbox"/> AGY 240 (4)	<input type="checkbox"/> AST 101 (4)	<input type="checkbox"/> AST 102 (4)
<input type="checkbox"/> BIO 105 (4)	<input type="checkbox"/> BIO 111 (5)	<input type="checkbox"/> BIO 112 (5)
<input type="checkbox"/> BIO 201 (4)	<input type="checkbox"/> BIO 202 (4)	<input type="checkbox"/> BIO 204 (4)
<input type="checkbox"/> BIO 208 (5)	<input type="checkbox"/> BIO 221 (5)	
<input type="checkbox"/> CHE 101 (5)	<input type="checkbox"/> CHE 102 (5)	<input type="checkbox"/> CHE 105 (5)
<input type="checkbox"/> CHE 111 (5)	<input type="checkbox"/> CHE 112 (5)	<input type="checkbox"/> ENV 101 (4)
<input type="checkbox"/> GEO 111 (4)	<input type="checkbox"/> GEO 112 (4)	<input type="checkbox"/> GEY 111 (4)
<input type="checkbox"/> GEY 112 (4)	<input type="checkbox"/> GEY 135 (4)	
<input type="checkbox"/> MET 150 (4)	<input type="checkbox"/> PHY 105 (4)	<input type="checkbox"/> PHY 107 (4)
<input type="checkbox"/> PHY 111 (5)	<input type="checkbox"/> PHY 112 (5)	<input type="checkbox"/> PHY 211 (5)
<input type="checkbox"/> PHY 212 (5)	<input type="checkbox"/> SCI 155 (4)	<input type="checkbox"/> SCI 156 (4)

Arts & Humanities, History, and Social & Behavioral Sciences

(18 semester credits)

Arts & Humanities

(9 semester credits)

Take SPA 211, SPA 212, and one additional gtPathways Arts & Humanities course (GT-AH1, GT-AH2, GT-AH3, or GT-AH4)

Take both: SPA 211* (3) SPA 212* (3)

Note: Credits can be earned through testing options.

Arts (GT-AH1)

<input type="checkbox"/> ART 110 (3)	<input type="checkbox"/> ART 111 (3)	<input type="checkbox"/> ART 112 (3)
<input type="checkbox"/> ART 207 (3)	<input type="checkbox"/> DAN 125 (3)	<input type="checkbox"/> MUS 120 (3)
<input type="checkbox"/> MUS 121 (3)	<input type="checkbox"/> MUS 122 (3)	<input type="checkbox"/> MUS 123 (3)
<input type="checkbox"/> MUS 125 (3)	<input type="checkbox"/> THE 105 (3)	<input type="checkbox"/> THE 211 (3)
<input type="checkbox"/> THE 212 (3)		

Literature & Humanities (GT-AH2)

<input type="checkbox"/> HUM 115 (3)	<input type="checkbox"/> HUM 121 (3)	<input type="checkbox"/> HUM 122 (3)
<input type="checkbox"/> HUM 123 (3)	<input type="checkbox"/> LIT 115 (3)	<input type="checkbox"/> LIT 201 (3)
<input type="checkbox"/> LIT 202 (3)	<input type="checkbox"/> LIT 205 (3)	<input type="checkbox"/> LIT 211 (3)
<input type="checkbox"/> LIT 212 (3)	<input type="checkbox"/> LIT 221 (3)	<input type="checkbox"/> LIT 222 (3)
<input type="checkbox"/> LIT 225 (3)	<input type="checkbox"/> LIT 259 (3)	<input type="checkbox"/> LIT 268 (3)

Ways of Thinking (GT-AH3)

<input type="checkbox"/> PHI 111 (3)	<input type="checkbox"/> PHI 112 (3)	<input type="checkbox"/> PHI 113 (3)
<input type="checkbox"/> PHI 114 (3)	<input type="checkbox"/> PHI 214 (3)	<input type="checkbox"/> PHI 218 (3)
<input type="checkbox"/> PHI 220 (3)		

Foreign Languages (GT-AH4)

<input type="checkbox"/> FRE 211 (3)	<input type="checkbox"/> FRE 212 (3)	<input type="checkbox"/> GER 211 (3)
<input type="checkbox"/> GER 212 (3)	<input type="checkbox"/> ITA 211 (3)	<input type="checkbox"/> ITA 212 (3)
<input type="checkbox"/> JPN 211 (3)	<input type="checkbox"/> JPN 212 (3)	<input type="checkbox"/> RUS 211 (3)
<input type="checkbox"/> RUS 212 (3)		

History (GT-HI1) (3 semester credits) Take one course.

HIS 244 (3) Preferred OR one of the courses below:

<input type="checkbox"/> HIS 101 (3)	<input type="checkbox"/> HIS 102 (3)	<input type="checkbox"/> HIS 111 (3)
--------------------------------------	--------------------------------------	--------------------------------------

<input type="checkbox"/> HIS 112 (3)	<input type="checkbox"/> HIS 215 (3)	<input type="checkbox"/> HIS 243 (3)
<input type="checkbox"/> HIS 247 (3)	<input type="checkbox"/> HIS 249 (3)	<input type="checkbox"/> HIS 255 (3)

Social & Behavioral Sciences

(6 semester credits) From any of the three GT Social & Behavioral Sciences categories (GT-SS1, GT-SS2, GT-SS3).

Economics & Political Systems (GT-SS1)

<input type="checkbox"/> ECO 101 (3)	<input type="checkbox"/> ECO 201 (3)	<input type="checkbox"/> ECO 202 (3)
<input type="checkbox"/> ECO 245 (3)	<input type="checkbox"/> POS 105 (3)	<input type="checkbox"/> POS 111 (3)
<input type="checkbox"/> POS 125 (3)	<input type="checkbox"/> POS 205 (3)	<input type="checkbox"/> POS 215 (3)
<input type="checkbox"/> POS 225 (3)		

Geography (GT-SS2)

<input type="checkbox"/> GEO 105 (3)	<input type="checkbox"/> GEO 106 (3)
--------------------------------------	--------------------------------------

Human Behavior, Culture, or Social Frameworks (GT-SS3)

<input type="checkbox"/> ANT 101 (3)	<input type="checkbox"/> ANT 102 (1)	<input type="checkbox"/> ANT 103 (1)
<input type="checkbox"/> ANT 104 (1)		
<input type="checkbox"/> ANT 107 (3)	<input type="checkbox"/> ANT 111 (3)	<input type="checkbox"/> ANT 201 (3)
<input type="checkbox"/> ANT 215 (3)	<input type="checkbox"/> ANT 250 (3)	<input type="checkbox"/> COM 220 (3)
<input type="checkbox"/> ETH 200 (3)	<input type="checkbox"/> JOU 105 (3)	<input type="checkbox"/> PSY 101 (3)
<input type="checkbox"/> PSY 102 (3)	<input type="checkbox"/> PSY 205 (3)	<input type="checkbox"/> PSY 217 (3)
<input type="checkbox"/> PSY 226 (3)	<input type="checkbox"/> PSY 227 (3)	<input type="checkbox"/> PSY 235 (3)
<input type="checkbox"/> PSY 238 (3)	<input type="checkbox"/> PSY 249 (3)	<input type="checkbox"/> SOC 101 (3)
<input type="checkbox"/> SOC 102 (3)	<input type="checkbox"/> SOC 205 (3)	<input type="checkbox"/> SOC 207 (3)
<input type="checkbox"/> SOC 215 (3)	<input type="checkbox"/> SOC 216 (3)	<input type="checkbox"/> SOC 218 (3)
<input type="checkbox"/> SOC 220 (3)	<input type="checkbox"/> SOC 231 (3)	<input type="checkbox"/> SOC 237 (3)
<input type="checkbox"/> WST 200 (3)	<input type="checkbox"/> WST 225 (3)	<input type="checkbox"/> WST 240 (3)
<input type="checkbox"/> WST 249 (3)		

SUBTOTAL: (34 semester credits required)

Additional Required Courses (13 semester credits) Take three courses.

SPA 111* (5)

SPA 112* (5)

COM 115 (3) Recommended OR COM 125 (3)

**Note: Credits can be earned through testing options.*

Additional Electives (13 semester credits)

Additional 13 semester credits of electives selected from the following Approved Electives List. Select these courses with your advisor to better fit the requirements of your anticipated major at your transfer college or university. Suggested courses: 200-level Spanish course or courses outside the Spanish department with content related to the Spanish-speaking world.

<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>

TOTAL (60 semester credits required)

IMPORTANT

- ◆ This degree worksheet is subject to change. Please work closely with an advisor to create your academic plan and ensure a successful experience at FRCC.
- ◆ To check your degree status, go to your eWOLF account, click on Degree Check, and review your progress toward your degree.
- ◆ An absence of 12 months constitutes a break in enrollment and invalidates this review and possibly this plan of study.

ADDITIONAL GRADUATION REQUIREMENTS FOR ASSOCIATE OF ARTS DEGREE

- ◆ No developmental courses may be applied to this degree.
- ◆ No more than 6 semester credits in independent study or internships in the prefixes following may be applied to this degree.
- ◆ Minimum Grade Point Average 2.0; only grades of "C" or above may be applied to this degree.
- ◆ Minimum 15 degree-applicable semester credits must be completed at FRCC.
- ◆ Submit graduation application, transfer credits, and credit for prior learning to Admissions & Records by deadline and complete CAAP exam (see Class Schedule for dates).
- ◆ Continuing students who have not had a 12-month lapse in enrollment will be allowed to use the requirements listed in any catalog published while continuously attending the college.

STATEWIDE SPANISH TRANSFER ARTICULATION AGREEMENT

The Statewide Spanish Transfer Articulation Agreement ensures that a student who begins an Associate of Arts degree at a Colorado community college will transfer 60 credits into the Bachelor of Arts in Spanish degree program at a Colorado public four-year college (i.e., 60+60 agreement). The following four-year schools participate in this agreement:

- ◆ Adams State University
- ◆ Colorado Mesa University
- ◆ Colorado State University-Fort Collins
- ◆ Colorado State University-Pueblo
- ◆ Fort Lewis College
- ◆ Metropolitan State University of Denver
- ◆ University of Colorado at Boulder
- ◆ University of Colorado at Colorado Springs
- ◆ University of Colorado Denver
- ◆ University of Northern Colorado
- ◆ Western State Colorado University

Completion of the curriculum prescribed within this statewide articulation agreement does not guarantee admission to a participating receiving institution. Students must meet all admission and application requirements at the receiving institution including the submission of all required documentation by stated deadlines. Please note: students transferring to a University of Colorado institution (Boulder, Colorado Springs, Denver) must satisfy the CU System's MAPS (Minimum Academic Preparation Standards) requirement.

Only courses with grades of C- or above are guaranteed to transfer.

Admission to a receiving institution does not guarantee enrollment in a specific degree program. Some programs of receiving institutions have controlled entry due either to space limitations or academic requirements.

The credit and course transfer guarantees described in this agreement apply to the specific degree program covered by

this agreement. The receiving institution will accept all applicable credits earned within ten years of transfer to the receiving institution. Credits earned more than ten years earlier will be evaluated on a course-by-course basis.

Because of the limitations just listed, students must consult with the Office of Admissions at the institution to which they are considering transferring.

COLORADO GUARANTEED TRANSFER PROGRAM FOR GENERAL EDUCATION (gtPATHWAYS)

After starting on your higher education pathway at any public college or university in Colorado, and, upon acceptance to another, you can transfer up to **31 credits** of successfully (C- or above) completed gtPATHWAYS (general education) coursework. These courses are guaranteed to transfer with you and count toward your general education core or graduation requirements for most, but not all, associate's or bachelor's degree programs. If you completed a course before it became effective as a gtPATHWAYS course, the institution to which you transfer has the option to accept it or not accept it. For more information and the most updated list of gtPATHWAYS courses, including dates when individual courses became effective, visit <http://higher.ed.colorado.gov/Academics/Transfers/gtPathways/curriculum.html>. Guaranteed transfer courses that are not offered by FRCC, but are taken at other Colorado institutions, may apply to the appropriate GT category under Required General Education Courses.

If you complete an Associate of Arts or Associate of Science degree, 60 credits are guaranteed to transfer to a four-year school, once you are accepted for admission. You should be able to finish a bachelor's degree within another 60 credits. This is called a 60+60 transfer plan. Please note that some majors at the four-year schools require specific courses that must be completed as part of the A.A. or A.S. degree. Note also that some majors may exceed the typical 120 credits required to graduate. For more information on Colorado's 60+60 program, including transfer guides and a list of applicable degrees, visit <http://higher.ed.colorado.gov/Academics/Transfers/gtPathways/default.html>.

Additional notes regarding transfer:

Transferring credit to FRCC: Transfer courses will be evaluated for FRCC course equivalency and applied to degree requirements according to state and college policy. Completion of FRCC equivalent guaranteed transfer (gt) course requirements from any regionally accredited institution will meet FRCC degree requirements.

Credit for Prior Learning: Credit earned through prior learning methodologies (including CLEP, Advanced Placement, International Baccalaureate, articulation, military, corporate, challenge exam, portfolio credit, correspondence courses, or independent study) may meet FRCC degree requirements. A student who is awarded credit using standardized credit for prior learning assessments may be granted a degree with designation & a gt Pathways notation on their CCCS transcript. The receiving Colorado public institution will be obligated to honor the promise that completion of the AA/AS with designation and/or gt Pathway curriculum fulfills the lower division requirements as defined by the statewide articulation agreement. The receiving institution will evaluate those credits according to its standard

policy. Students who wish to use credits awarded by exam to fulfill specific course requirements are responsible for consulting with the institution to which they are considering transferring to determine whether the credits they have been awarded by exam meet the standards of the receiving institution for specific course equivalents.

APPROVED ELECTIVE LIST FOR ASSOCIATE OF ARTS DEGREE

Elective credit for the Associate of Arts - Spanish degree must be completed from the following list of approved prefixes and courses. While some of the following courses may be considered generally transferable, a student's major at a four-year college or university may limit what credit will be accepted and applied toward degree requirements at that institution. Selection of elective credits and course sequencing should be done in consultation with an advisor and the four-year institution to which you intend to transfer.

ACC	101, 121, 122
AGY	240
AIR	All AIR courses in this catalog
ANT	All ANT courses in this catalog
ARA	All ARA courses in this catalog
ARM	All ARM courses in this catalog
ART	All ART courses in this catalog
ASL	121, 122, 123, 221, 222
AST	All AST courses in this catalog
BIO	105, 106, 111, 112, 115, 160, 201, 202, 204, 208, 216, 221, 222
BUS	115, 203, 216, 217, 226
CHE	All CHE courses in this catalog
CHI	All CHI courses in this catalog
CIS	115, 118
COM	All COM courses in this catalog
CRJ	110, 111, 112, 125, 127, 135, 145, 205, 209, 210, 220, 230, 235, 236, 257
CSC	All CSC courses in this catalog
DAN	All DAN courses in this catalog <i>Note: DAN, OUT, & PED combined up to 3 credits cumulative. DAN 125 may be applied as an arts and humanities elective rather than a physical activities course.</i>
ECO	All ECO courses in this catalog
ENG	121 and above
ENV	101
ETH	All ETH courses in this catalog
FRE	All FRE courses in this catalog
GEO	All GEO courses in this catalog
GER	All GER courses in this catalog
GEY	All GEY courses in this catalog
HIS	All HIS courses in this catalog
HUM	All HUM courses in this catalog
HWE	100, 103, 110, 124
ITA	All ITA courses in this catalog
JOU	All JOU courses in this catalog
JPN	All JPN courses in this catalog

LIT	All LIT courses in this catalog
MAN	226
MAR	216, 220
MAT	120 or above
MET	All MET courses in this catalog
MGD	133, 221, 222, 233
MUS	All MUS courses in this catalog
OUT	All OUT courses in this catalog <i>Note: DAN, OUT, & PED combined up to 3 credits cumulative.</i>
PED	All PED courses in this catalog <i>Note: DAN, OUT, & PED combined up to 3 credits cumulative.</i>
PHI	All PHI courses in this catalog
PHY	All PHY courses in this catalog
POS	All POS courses in this catalog
PSY	All PSY courses in this catalog
RUS	All RUS courses in this catalog
SCI	All SCI courses in this catalog
SOC	All SOC courses in this catalog
SPA	All SPA courses in this catalog
THE	All THE courses in this catalog
WST	All WST courses in this catalog
GT	All Guaranteed Transfer courses in this catalog

Note: This list applies only to courses shown in the FRCC catalog, and to transfer credit which is equivalent to FRCC Catalog courses. Transfer courses which are identified with "999" course numbers (with the exception of Career Technical Electives) are also approved as elective credit.

Advising Sheet: Associate of Science Degree, Designation in Mathematics for Transfer

Unofficial Degree Check Catalog Year: 2013-2014

Student Name: _____

Date: _____

Transferring credit into this institution may impact degree completion eligibility. Please see an advisor.

Required General Education Courses:

Guaranteed transfer courses that are not offered by FRCC, but are taken at other Colorado institutions, may apply to the appropriate GT category under Required General Education Courses. Completing COM courses is a Colorado Community College System requirement, not a gtPATHWAYS requirement.

Communication

(GT-CO1, GT-CO2, GT-CO3) (6 semester credits) Take one pair of courses.

ENG 121 (3) and ENG 122 (3) OR

ENG 122 (3) and ENG 201 (3) OR another GT-CO3 course

Mathematics

(GT-MA1) (14-15 semester credits) Take all three courses.

MAT 201 (5) MAT 202 (5) AND

MAT 203 (4) OR MAT 204 (5)

Natural & Physical Sciences

(GT-SC1) (10 semester credits)

Take both:

- PHY 211 (5) PHY 212 (5)

Arts & Humanities, History, and Social & Behavioral Sciences

(18 semester credits)

Arts & Humanities

(9 semester credits)

Take nine credits from any of the four GT Arts & Humanities categories (GT-AH1, GT-AH2, GT-AH3, or GT-AH4)

Arts (GT-AH1)

- ART 110 (3) ART 111 (3) ART 112 (3)

- ART 207 (3) DAN 125 (3) MUS 120 (3)

- MUS 121 (3) MUS 122 (3) MUS 123 (3)

- MUS 125 (3) THE 105 (3) THE 211 (3)

- THE 212 (3)

Literature & Humanities (GT-AH2)

- HUM 115 (3) HUM 121 (3) HUM 122 (3)

- HUM 123 (3) LIT 115 (3) LIT 201 (3)

- LIT 202 (3) LIT 205 (3) LIT 211 (3)

- LIT 212 (3) LIT 221 (3) LIT 222 (3)

- LIT 225 (3) LIT 259 (3) LIT 268 (3)

Ways of Thinking (GT-AH3)

- PHI 111 (3) PHI 112 (3) PHI 113 (3)

- PHI 114 (3) PHI 214 (3) PHI 218 (3)

- PHI 220 (3)

Foreign Languages (GT-AH4)

- FRE 211 (3) FRE 212 (3) GER 211 (3)

- GER 212 (3) ITA 211 (3) ITA 212 (3)

- JPN 211 (3) JPN 212 (3) RUS 211 (3)

- RUS 212 (3) SPA 211 (3) SPA 212 (3)

History

(3 semester credits) Take one course.

History (GT-HI1)

- HIS 101 (3) HIS 102 (3) HIS 111 (3)

- HIS 112 (3) HIS 201 (3) HIS 202 (3)

- HIS 207 (3) HIS 208 (3) HIS 215 (3)

- HIS 225 (3) HIS 236 (3) HIS 243 (3)

- HIS 244 (3) HIS 245 (3) HIS 247 (3)

- HIS 249 (3) HIS 255 (3) HIS 260 (3)

Social & Behavioral Sciences

(6 semester credits) Take six credits from any of the three GT Social & Behavioral Sciences categories (GT-SS1, GT-SS2, GT-SS3).

Economics & Political Systems (GT-SS1)

- ECO 101 (3) ECO 201 (3) ECO 202 (3)

- ECO 245 (3) POS 105 (3) POS 111 (3)

- POS 125 (3) POS 205 (3) POS 215 (3)

- POS 225 (3)

Geography (GT-SS2)

- GEO 105 (3) GEO 106 (3)

Human Behavior, Culture, or Social Frameworks (GT-SS3)

- ANT 101 (3) ANT 102 (1) ANT 103 (1)

- ANT 104 (1) ANT 107 (3) ANT 111 (3)

- ANT 201 (3) ANT 215 (3) ANT 250 (3)

- COM 220 (3) ETH 200 (3) JOU 105 (3)

- PSY 101 (3) PSY 102 (3)

- PSY 205 (3) PSY 217 (3) PSY 226 (3)

- PSY 227 (3) PSY 235 (3) PSY 238 (3)

- PSY 249 (3) SOC 101 (3) SOC 102 (3)

- SOC 205 (3) SOC 207 (3) SOC 215 (3)

- SOC 216 (3) SOC 218 (3) SOC 220 (3)

- SOC 231 (3) SOC 237 (3) WST 200 (3)

- WST 225 (3) WST 240 (3) WST 249 (3)

SUBTOTAL: (48-49 semester credits required)

Additional Required Courses (7 semester credits) Take two courses.

- COM 115 (3) OR COM 125 (3)

- *CSC 160 (4)

**Students transferring to CSU-Ft. Collins will be required to take an additional computer science course at CSU-Ft. Collins.*

Additional Electives (4-5 semester credits)

Additional 4-5 semester credits of electives selected from the following Approved Math & Science Electives List to equal 60 credits for the degree. Selection of elective credits should be done in consultation with an advisor and the four-year institution to which you intend to transfer.

APPROVED MATH & SCIENCE ELECTIVES LIST

AGY	240
AST	All AST courses in this catalog
BIO	105, 106, 111, 112, 115, 160, 201, 202, 204, 208, 216, 221, 222
CHE	All CHE courses in this catalog
CSC	All CSC courses in this catalog
ENV	101
GEO	111, 112
GEY	All GEY courses in this catalog
MAT	120 or above (except MAT 155, 156)
MET	All MET courses in this catalog
PHY	All PHY courses in this catalog

Note: This list applies only to courses shown in the FRCC catalog, and to transfer credit which is equivalent to FRCC Catalog courses. Transfer courses which are identified with "999" course numbers (with the exception of Career Technical Electives) are also approved as elective credit.

- _____

TOTAL (60 semester credits required)

IMPORTANT

- ◆ This degree worksheet is subject to change. Please work closely with an advisor to create your academic plan and ensure a successful experience at FRCC.
- ◆ To check your degree status, go to your eWOLF account, click on Degree Check, and review your progress toward your degree.
- ◆ An absence of 12 months constitutes a break in enrollment and invalidates this review and possibly this plan of study.

ADDITIONAL GRADUATION REQUIREMENTS FOR ASSOCIATE OF SCIENCE DEGREE

- ◆ No developmental courses may be applied to this degree.
- ◆ No more than 6 semester credits in independent study or internships in the prefixes following may be applied to this degree.
- ◆ Minimum Grade Point Average 2.0; only grades of "C" or above may be applied to this degree.
- ◆ Minimum 15 degree-applicable semester credits must be completed at FRCC.
- ◆ Submit graduation application, transfer credits, and credit for prior learning to Admissions & Records by deadline and complete CAAP exam (see Class Schedule for dates).
- ◆ Continuing students who have not had a 12-month lapse in enrollment will be allowed to use the requirements listed in any catalog published while continuously attending the college.

STATEWIDE MATHEMATICS TRANSFER ARTICULATION AGREEMENT

The Statewide Mathematics Transfer Articulation Agreement ensures that a student who begins an Associate of Science degree at a Colorado community college will transfer 60 credits into the Bachelor of Arts or Bachelor of Science in Mathematics degree program at a Colorado public four-year college (i.e., 60+60 agreement). The following four-year schools participate in this agreement:

- ◆ Adams State University
- ◆ Colorado Mesa University
- ◆ Colorado State University-Fort Collins
- ◆ Colorado State University-Pueblo
- ◆ Fort Lewis College
- ◆ Metropolitan State University of Denver
- ◆ University of Colorado at Boulder
- ◆ University of Colorado at Colorado Springs
- ◆ University of Colorado Denver
- ◆ University of Northern Colorado
- ◆ Western State Colorado University

Completion of the curriculum prescribed within this statewide articulation agreement does not guarantee admission to a participating receiving institution. Students must meet all admission and application requirements at the receiving institution including the submission of all required documentation by stated deadlines. Please note: students transferring to a University of Colorado institution (Boulder, Colorado Springs, Denver) must satisfy the CU System's MAPS (Minimum Academic Preparation Standards) requirement. Only courses with grades of C- or above are guaranteed to transfer.

Admission to a receiving institution does not guarantee enrollment in a specific degree program. Some programs of receiving institutions have controlled entry due either to space limitations or academic requirements.

The credit and course transfer guarantees described in this agreement apply to the specific degree program covered by this agreement. Receiving institutions will evaluate application of the courses designated in this agreement to other degree programs on a course-by-course basis. The receiving institution will accept all applicable credits earned within ten years of transfer to the receiving institution. Credits earned more than ten years earlier will be evaluated on a course-by-course basis.

Because of the limitations just listed, students must consult with the Office of Admissions at the institution to which they are considering transferring.

COLORADO GUARANTEED TRANSFER PROGRAM FOR GENERAL EDUCATION (gtPATHWAYS)

After starting on your higher education pathway at any public college or university in Colorado, and, upon acceptance to another, you can transfer up to **31 credits** of successfully (C- or above) completed gtPATHWAYS (general education) coursework. These courses are guaranteed to transfer with you and count toward your general education core or graduation requirements for most, but not all, associate's or bachelor's degree programs. If you completed a course before it became effective as a gtPATHWAYS course, the institution to which you transfer has the option to accept it or not accept it. For more information and the most updated list of gtPATHWAYS courses, including dates when individual courses became effective, visit

<http://higher.ed.colorado.gov/Academics/Transfers/gtPathways/curriculum.html>. Guaranteed transfer courses that are not offered by FRCC, but are taken at other Colorado institutions, may apply to the appropriate GT category under Required General Education Courses.

If you complete an Associate of Arts or Associate of Science degree, 60 credits are guaranteed to transfer to a four-year school, once you are accepted for admission. You should be able to finish a bachelor's degree within another 60 credits. This is called a 60+60 transfer plan. Please note that some majors at the four-year schools require specific courses that must be completed as part of the A.A. or A.S. degree. Note also that some majors may exceed the typical 120 credits required to graduate. Such degree programs will be listed in your selected institution's catalog and advising personnel can assist you with locating the specific degree requirements for your particular institution and major. For more information on Colorado's 60+60 program, including transfer guides and a list of applicable degrees, visit

<http://higher.ed.colorado.gov/Academics/Transfers/gtPathways/default.html>.

Additional notes regarding transfer:

Transferring credit to FRCC: Transfer courses will be evaluated for FRCC course equivalency and applied to degree requirements according to state and college policy. Completion of FRCC equivalent guaranteed transfer (gt) course requirements from any regionally accredited institution will meet FRCC degree requirements.

Credit for Prior Learning: Credit earned through prior learning methodologies (including CLEP, Advanced Placement, International Baccalaureate, articulation, military, corporate, challenge exam, portfolio credit, correspondence courses, or independent study) may meet FRCC degree requirements. A student who is awarded credit using

standardized credit for prior learning assessments may be granted a degree with designation and a gtPathways notation on their CCCS transcript. The receiving Colorado public institution will be obligated to honor the promise that completion of the AA/AS with designation and/or gtPathway curriculum fulfills the lower division requirements as defined by the statewide articulation agreement. The receiving institution will evaluate those credits according to its standard policy. Students who wish to use credits awarded by exam to fulfill specific course requirements are responsible for consulting with the institution to which they are considering transferring to determine whether the credits they have been awarded by exam meet the standards of the receiving institution for specific course equivalents.

Advising Sheet: Associate of Science Degree, Designation in Psychology for Transfer

Unofficial Degree Check Catalog Year: 2013-2014

Student Name: _____

Date: _____

Transferring credit into this institution may impact degree completion eligibility. Please see an advisor.

Required General Education Courses:

Guaranteed transfer courses that are not offered by FRCC, but are taken at other Colorado institutions, may apply to the appropriate GT category under Required General Education Courses. Completing COM courses is a Colorado Community College System requirement, not a gtPATHWAYS requirement.

Communication

(GT-CO1, GT-CO2, GT-CO3) (6 semester credits) Take one pair of courses.

- ENG 121 (3) and ENG 122 (3) OR
- ENG 122 (3) and ENG 201 (3) OR another GT-CO3 course

Mathematics

(GT-MA1) (4 semester credits)

Students must take MAT 121 to fulfill the requirement in this category.

- MAT 121 (4)

Natural & Physical Sciences

(GT-SC1) (10 semester credits)

Take both BIO 111 and CHE 111 to fulfill the required credits in this category.

- BIO 111 (5) CHE 111 (5)

Note: Students planning to transfer to the University of Colorado Denver should complete both two-semester sequences of BIO 111 & 112 and CHE 111 & 112; credits over 10 will be applied to Additional Electives.

Arts & Humanities, History, and Social & Behavioral Sciences

(18 semester credits)

Arts & Humanities

(9 semester credits)

***Three of the nine credits required for this category must be from either PHI 111 or PHI 112.** The additional six credits must be from at least two different categories of gtPathways Arts & Humanities courses (GT-AH1, GT-AH2, GT-AH3, or GT-

AH4).

Arts (GT-AH1)

- | | | |
|--------------------------------------|--------------------------------------|--------------------------------------|
| <input type="checkbox"/> ART 110 (3) | <input type="checkbox"/> ART 111 (3) | <input type="checkbox"/> ART 112 (3) |
| <input type="checkbox"/> ART 207 (3) | <input type="checkbox"/> DAN 125 (3) | <input type="checkbox"/> MUS 120 (3) |
| <input type="checkbox"/> MUS 121 (3) | <input type="checkbox"/> MUS 122 (3) | <input type="checkbox"/> MUS 123 (3) |
| <input type="checkbox"/> MUS 125 (3) | <input type="checkbox"/> THE 105 (3) | <input type="checkbox"/> THE 211 (3) |
| <input type="checkbox"/> THE 212 (3) | | |

Literature & Humanities (GT-AH2)

- | | | |
|--------------------------------------|--------------------------------------|--------------------------------------|
| <input type="checkbox"/> HUM 115 (3) | <input type="checkbox"/> HUM 121 (3) | <input type="checkbox"/> HUM 122 (3) |
| <input type="checkbox"/> HUM 123 (3) | <input type="checkbox"/> LIT 115 (3) | <input type="checkbox"/> LIT 201 (3) |
| <input type="checkbox"/> LIT 202 (3) | <input type="checkbox"/> LIT 205 (3) | <input type="checkbox"/> LIT 211 (3) |
| <input type="checkbox"/> LIT 212 (3) | <input type="checkbox"/> LIT 221 (3) | <input type="checkbox"/> LIT 222 (3) |
| <input type="checkbox"/> LIT 225 (3) | <input type="checkbox"/> LIT 259 (3) | <input type="checkbox"/> LIT 268 (3) |

Ways of Thinking (GT-AH3)

Must take at least one course:

* PHI 111 (3) OR * PHI 112 (3)

- | | | |
|--------------------------------------|--------------------------------------|--------------------------------------|
| <input type="checkbox"/> PHI 113 (3) | <input type="checkbox"/> PHI 114 (3) | <input type="checkbox"/> PHI 214 (3) |
| <input type="checkbox"/> PHI 218 (3) | <input type="checkbox"/> PHI 220 (3) | |

Foreign Languages (GT-AH4)

- | | | |
|--------------------------------------|--------------------------------------|--------------------------------------|
| <input type="checkbox"/> FRE 211 (3) | <input type="checkbox"/> FRE 212 (3) | <input type="checkbox"/> GER 211 (3) |
| <input type="checkbox"/> GER 212 (3) | <input type="checkbox"/> ITA 211 (3) | <input type="checkbox"/> ITA 212 (3) |
| <input type="checkbox"/> JPN 211 (3) | <input type="checkbox"/> JPN 212 (3) | <input type="checkbox"/> RUS 211 (3) |
| <input type="checkbox"/> RUS 212 (3) | <input type="checkbox"/> SPA 211 (3) | <input type="checkbox"/> SPA 212 (3) |

History

(3 semester credits) Take one course.

History (GT-HI1)

- | | | |
|--------------------------------------|--------------------------------------|--------------------------------------|
| <input type="checkbox"/> HIS 101 (3) | <input type="checkbox"/> HIS 102 (3) | <input type="checkbox"/> HIS 111 (3) |
| <input type="checkbox"/> HIS 112 (3) | <input type="checkbox"/> HIS 201 (3) | <input type="checkbox"/> HIS 202 (3) |
| <input type="checkbox"/> HIS 207 (3) | <input type="checkbox"/> HIS 208 (3) | <input type="checkbox"/> HIS 215 (3) |
| <input type="checkbox"/> HIS 225 (3) | <input type="checkbox"/> HIS 236 (3) | <input type="checkbox"/> HIS 243 (3) |
| <input type="checkbox"/> HIS 244 (3) | <input type="checkbox"/> HIS 245 (3) | <input type="checkbox"/> HIS 247 (3) |
| <input type="checkbox"/> HIS 249 (3) | <input type="checkbox"/> HIS 255 (3) | <input type="checkbox"/> HIS 260 (3) |

Social & Behavioral Sciences

(6 semester credits) Take two three credit courses from any of the three GT Social & Behavioral Sciences categories (GT-SS1, GT-SS2, GT-SS3).

Economics & Political Systems (GT-SS1)

- | | | |
|--------------------------------------|--------------------------------------|--------------------------------------|
| <input type="checkbox"/> ECO 101 (3) | <input type="checkbox"/> ECO 201 (3) | <input type="checkbox"/> ECO 202 (3) |
| <input type="checkbox"/> ECO 245 (3) | <input type="checkbox"/> POS 105 (3) | <input type="checkbox"/> POS 111 (3) |
| <input type="checkbox"/> POS 125 (3) | <input type="checkbox"/> POS 205 (3) | <input type="checkbox"/> POS 215 (3) |
| <input type="checkbox"/> POS 225 (3) | | |

Geography (GT-SS2)

- | | |
|--------------------------------------|--------------------------------------|
| <input type="checkbox"/> GEO 105 (3) | <input type="checkbox"/> GEO 106 (3) |
|--------------------------------------|--------------------------------------|

Human Behavior, Culture, or Social Frameworks (GT-SS3)

- | | | |
|--------------------------------------|--------------------------------------|--------------------------------------|
| <input type="checkbox"/> ANT 101 (3) | <input type="checkbox"/> ANT 102 (1) | <input type="checkbox"/> ANT 103 (1) |
| <input type="checkbox"/> ANT 104 (1) | <input type="checkbox"/> ANT 107 (3) | <input type="checkbox"/> ANT 111 (3) |
| <input type="checkbox"/> ANT 201 (3) | <input type="checkbox"/> ANT 215 (3) | <input type="checkbox"/> ANT 250 (3) |
| <input type="checkbox"/> COM 220 (3) | | |

<input type="checkbox"/> ETH 200 (3)	<input type="checkbox"/> JOU 105 (3)	<input type="checkbox"/> PSY 205 (3)
<input type="checkbox"/> PSY 217 (3)	<input type="checkbox"/> PSY 226 (3)	<input type="checkbox"/> PSY 227 (3)
<input type="checkbox"/> PSY 235 (3)	<input type="checkbox"/> PSY 238 (3)	<input type="checkbox"/> PSY 249 (3)
<input type="checkbox"/> SOC 101 (3)	<input type="checkbox"/> SOC 102 (3)	<input type="checkbox"/> SOC 205 (3)
<input type="checkbox"/> SOC 207 (3)	<input type="checkbox"/> SOC 215 (3)	<input type="checkbox"/> SOC 216 (3)
<input type="checkbox"/> SOC 218 (3)	<input type="checkbox"/> SOC 220 (3)	<input type="checkbox"/> SOC 231 (3)
<input type="checkbox"/> SOC 237 (3)	<input type="checkbox"/> WST 200 (3)	<input type="checkbox"/> WST 225 (3)
<input type="checkbox"/> WST 240 (3)	<input type="checkbox"/> WST 249 (3)	

SUBTOTAL: (38 semester credits required)

Additional Required Courses (9 semester credits)

- PSY 101 (3)
- PSY 102 (3)
- COM 115 (3) OR COM 125 (3)

Additional Electives (13 semester credits)

Additional 13 semester credits of electives selected from the following Approved Math & Science Electives List. Selection of elective credits should be done in consultation with an advisor and the four-year institution to which you intend to transfer.

APPROVED MATH & SCIENCE ELECTIVES LIST

AGY	240
AST	All AST courses in this catalog
BIO	105, 106, 111, 112, 115, 160, 201, 202, 204, 208, 216, 221, 222
CHE	All CHE courses in this catalog
CSC	All CSC courses in this catalog
ENV	101
GEO	111, 112
GEY	All GEY courses in this catalog
MAT	120 or above (except MAT 155, 156)
MET	All MET courses in this catalog
PHY	All PHY courses in this catalog

*Note: Students planning to transfer to the **University of Colorado Denver** should complete both two-semester sequences of BIO 111 & 112 and CHE 111 & 112. Credits over 10 will be applied to Additional Electives.*

Note: The list above applies only to courses shown in the FRCC catalog, and to transfer credit which is equivalent to FRCC Catalog courses. Transfer courses which are identified with "999" course numbers (with the exception of Career Technical Electives) are also approved as elective credit.

- _____
- _____
- _____
- _____
- _____
- _____

TOTAL (60 semester credits required)

IMPORTANT

- ♦ This degree worksheet is subject to change. Please work closely with an advisor to create your academic plan and ensure a successful experience at FRCC.
- ♦ To check your degree status, go to your eWOLF account, click on Degree Check, and review your progress toward your degree.
- ♦ An absence of 12 months constitutes a break in enrollment and invalidates this review and possibly this plan of study.

ADDITIONAL GRADUATION REQUIREMENTS FOR ASSOCIATE OF SCIENCE DEGREE

- ♦ No developmental courses may be applied to this degree.
- ♦ No more than 6 semester credits in independent study or internships in the prefixes following may be applied to this degree.
- ♦ Minimum Grade Point Average 2.0; only grades of "C" or above may be applied to this degree.
- ♦ Minimum 15 degree-applicable semester credits must be completed at FRCC.
- ♦ Submit graduation application, transfer credits, and credit for prior learning to Admissions & Records by deadline and complete CAAP exam (see Class Schedule for dates).
- ♦ Continuing students who have not had a 12-month lapse in enrollment will be allowed to use the requirements listed in any catalog published while continuously attending the college.

STATEWIDE PSYCHOLOGY TRANSFER ARTICULATION AGREEMENT

The Statewide Psychology Transfer Articulation Agreement ensures that a student who begins an Associate of Science degree at a Colorado community college will transfer 60 credits into the Bachelor of Arts or Bachelor of Science in Psychology degree program at a Colorado public four-year college (i.e., 60+60 agreement). The following four-year schools participate in this agreement:

- ♦ Colorado State University-Fort Collins
- ♦ Colorado State University-Pueblo
- ♦ University of Colorado Denver

Completion of the curriculum prescribed within this statewide articulation agreement does not guarantee admission to a participating receiving institution. Students must meet all admission and application requirements at the receiving institution including the submission of all required documentation by stated deadlines. Please note: students transferring to a University of Colorado institution (Boulder, Colorado Springs, Denver) must satisfy the CU System's MAPS (Minimum Academic Preparation Standards) requirement.

Only courses with grades of C- or above are guaranteed to transfer.

Admission to a receiving institution does not guarantee enrollment in a specific degree program. Some programs of receiving institutions have controlled entry due either to space limitations or academic requirements.

The credit and course transfer guarantees described in this agreement apply to the specific degree program covered by this agreement. Receiving institutions will evaluate application of the courses designated in this agreement to other degree programs on a course-by-course basis. The receiving institution will accept all applicable credits earned within ten years of transfer to the receiving institution. Credits earned more than ten years earlier will be evaluated on a course-by-course basis.

Because of the limitations just listed, students must consult with the Office of Admissions at the institution to which they are considering transferring.

COLORADO GUARANTEED TRANSFER PROGRAM FOR GENERAL EDUCATION (gtPATHWAYS)

After starting on your higher education pathway at any public college or university in Colorado, and, upon acceptance to another, you can transfer up to **31 credits** of successfully (C-

or above) completed gtPATHWAYS (general education) coursework. These courses are guaranteed to transfer with you and count toward your general education core or graduation requirements for most, but not all, associate's or bachelor's degree programs. If you completed a course before it became effective as a gtPATHWAYS course, the institution to which you transfer has the option to accept it or not accept it. For more information and the most updated list of gtPATHWAYS courses, including dates when individual courses became effective, visit <http://higher.ed.colorado.gov/Academics/Transfers/gtPathways/curriculum.html>. Guaranteed transfer courses that are not offered by FRCC, but are taken at other Colorado institutions, may apply to the appropriate GT category under Required General Education Courses.

If you complete an Associate of Arts or Associate of Science degree, 60 credits are guaranteed to transfer to a four-year school, once you are accepted for admission. You should be able to finish a bachelor's degree within another 60 credits. This is called a 60+60 transfer plan. Please note that some majors at the four-year schools require specific courses that must be completed as part of the A.A. or A.S. degree. Note also that some majors may exceed the typical 120 credits required to graduate. Such degree programs will be listed in your selected institution's catalog and advising personnel can assist you with locating the specific degree requirements for your particular institution and major. For more information on Colorado's 60+60 program, including transfer guides and a list of applicable degrees, visit <http://higher.ed.colorado.gov/Academics/Transfers/gtPathways/default.html>.

Additional notes regarding transfer:

Transferring credit to FRCC: Transfer courses will be evaluated for FRCC course equivalency and applied to degree requirements according to state and college policy. Completion of FRCC equivalent guaranteed transfer (gt) course requirements from any regionally accredited institution will meet FRCC degree requirements.

Credit for Prior Learning: Credit earned through prior learning methodologies (including CLEP, Advanced Placement, International Baccalaureate, articulation, military, corporate, challenge exam, portfolio credit, correspondence courses, or independent study) may meet FRCC degree requirements. A student who is awarded credit using standardized credit for prior learning assessments may be granted a degree with designation & a gt Pathways notation on their CCCS transcript. The receiving Colorado public institution will be obligated to honor the promise that completion of the AA/AS with designation and/or gt Pathway curriculum fulfills the lower division requirements as defined by the statewide articulation agreement. The receiving institution will evaluate those credits according to its standard policy. Students who wish to use credits awarded by exam to fulfill specific course requirements are responsible for consulting with the institution to which they are considering transferring to determine whether the credits they have been awarded by exam meet the standards of the receiving institution for specific course equivalents.

Associate of General Studies Degree

Code: F_AGS_AGS

This degree is designed for students who want to complete a broad program of both career and transfer courses without specialization. Transferability of the Associate of General Studies Degree depends on the courses taken and the requirements of the receiving institution.

Advising Sheet: Associate of General Studies Degree Worksheet

Unofficial Degree Check

Catalog Year: 2013-2014

Student Name: _____

Date: _____

Required General Education Courses:

Guaranteed transfer courses that are not offered by FRCC, but are taken at other Colorado institutions, may apply to the appropriate GT category under Required General Education Courses.

Communication

(3 semester credits) Take one course.

ENG 121 or above (3) OR COM ____ (any COM course in the catalog)

COM 220 (GT-SS3) may fulfill the Communication OR Social and Behavioral Sciences requirement, but not both.

Mathematics

(3 semester credits) Take one course.

Credits over 3 will be applied to the "Other Elective" category.

MAT 107 or above (3)

Note: MAT 030, MAT 060, MAT 090, and MAT 099 are considered developmental and will not apply to the AGS degree.

Natural & Physical Sciences

(3 semester credits) Take one course.

Credits over 3 can be applied to either of the elective categories.

AST ____ (All AST courses in this catalog)

BIO ____ (All BIO courses in this catalog)

CHE ____ (All CHE courses in this catalog)

ENV 101 (4)

GEO 111 (4) OR GEO 112 (4)

GEY ____ (All GEY courses in this catalog)

MET ____ (All MET courses in this catalog)

PHY ____ (All PHY courses in this catalog)

SCI ____ (All SCI courses in this catalog)

GEO 111 or 112 may fulfill the Natural & Physical Sciences OR Social & Behavioral Sciences requirement, but not both.

Arts & Humanities, History, and Social & Behavioral Sciences

(6 credits total)

Arts & Humanities

(3 semester credits) Take one course.

Credits over 3 can be applied to either of the elective categories.

- ARA ____ (All ARA courses in this catalog)
- ART ____ (All ART courses in this catalog)
- ASL 121 (5) ASL 122 (5) ASL 123 (5)
- ASL 221 (3) ASL 222 (3)
- CHI ____ (All CHI courses in this catalog)
- DAN 125 (3)
- FRE ____ (All FRE courses in this catalog)
- GER ____ (All GER courses in this catalog)
- HUM ____ (All HUM courses in this catalog)
- ITA ____ (All ITA courses in this catalog)
- JPN ____ (All JPN courses in this catalog)
- LIT ____ (All LIT courses in this catalog)
- MUS ____ (All MUS courses in this catalog)
- PHI ____ (All PHI courses in this catalog)
- RUS ____ (All RUS courses in this catalog)
- SPA ____ (All SPA courses in this catalog)
- THE ____ (All THE courses in this catalog)
- WST ____ (All WST courses in this catalog)

GEO 111 or 112 may fulfill the Natural & Physical Sciences OR Social & Behavioral Sciences requirement, but not both.
A single WST course may fulfill the Arts & Humanities OR Social & Behavioral Sciences requirement, but not both.

Social & Behavioral Sciences

(3 semester credits) Take one course. Take 3 credits from any of the History or Social & Behavioral Sciences courses listed below.

- ANT ____ (All ANT courses in this catalog)
- COM 220 (3)
- ECO ____ (All ECO courses in this catalog)
- ETH ____ (All ETH courses in this catalog)
- GEO ____ (All GEO courses in this catalog)
- HIS ____ (All HIS courses in this catalog)
- POS ____ (All POS courses in this catalog)
- PSY ____ (All PSY courses in this catalog)
- SOC ____ (All SOC courses in this catalog)
- WST ____ (All WST courses in this catalog)

SUBTOTAL (15 semester credits required)

General Education Electives (15 semester credits)

In addition to the courses selected to meet the general education requirements defined above, at least 15 additional general education credits must be selected from the Approved Electives List for the Associate of General Studies Degree (see following content).

- _____
- _____
- _____
- _____
- _____
- _____

Other Electives (30 semester credits)

An additional 30 credits of electives are needed for the AGS degree. These 30 credits may be general education courses or career technical courses or any combination of the two.

- _____
- _____
- _____
- _____
- _____
- _____

- _____
- _____
- _____
- _____
- _____
- _____

TOTAL (60 semester credits required)

IMPORTANT

A minimum of 15 credits must be courses approved as part of the Colorado Guaranteed Transfer Program (gtPATHWAYS).

These 15 credits can come from any category within the 60 credits for the AGS degree. If you completed a course before it became effective as a gtPATHWAYS course, the institution to which you transfer has the option to accept it or not accept it. For more information and the most updated list of gtPATHWAYS courses, including dates when individual courses became effective, visit <http://higher.ed.colorado.gov/Academics/Transfers/gtPathways/curriculum.html>

- ♦ This degree worksheet is subject to change. Please work closely with an advisor to create your academic plan and ensure a successful experience at FRCC.
- ♦ Credits transferred to FRCC are not official until evaluated by Admissions & Records.
- ♦ An absence of 12 months constitutes a break in enrollment and invalidates this review and possibly this plan of study.
- ♦ Many courses that meet requirements for the AGS are not typically transferable to four-year institutions. If completing the AGS with the intention of transfer, students are strongly encouraged to work with both an FRCC advisor and the intended transfer institution.
- ♦ To check your degree status, go to your eWOLF account, click on Degree Check, and review your progress toward your degree.

ADDITIONAL GRADUATION REQUIREMENTS FOR ASSOCIATE OF GENERAL STUDIES DEGREE

- ♦ No developmental courses may be applied to this degree.
- ♦ No more than 6 semester credits in independent study may be applied to this degree.
- ♦ Minimum Grade Point Average 2.0; only grades of "C" or above may be applied to this degree.
- ♦ Minimum 15 degree-applicable semester credits must be completed at FRCC.
- ♦ Submit graduation application, transfer credits, and credit for prior learning to Admissions & Records by published deadline and complete CAAP exam (see Class Schedule for dates).
- ♦ Continuing students who have not had a 12-month lapse in enrollment will be allowed to use the requirements listed in any catalog published while continuously attending the college.
- ♦ Generally, credits accepted in transfer will be less than 10 years old, though all credit which is not outdated or obsolete, and is applicable to the student's degree program, may be accepted. The final determination of acceptance of credit based on content and age of the credit is made by the appropriate college instructional department and instructional dean.

Refer to the college catalog and website for complete

information about this degree and other academic matters.

REQUIRED ELECTIVES

No more than 30 credits of coursework applicable to the degree are to be courses with career and technical prefixes. General Education elective courses (from the approved elective list for the AGS degree) may also be included in this category. The following courses are not applicable toward this degree:

Advancement of Academic Achievement

AAA All courses

English

- ENG 030 Basic Writing Skills
- ENG 060 Writing Fundamentals
- ENG 090 Basic Composition
- ENG 110 English Usage & Grammar

English as a Second Language

ESL All courses

General Education Development

GED All courses

Mathematics

- MAT 030 Fundamentals of Mathematics
- MAT 060 Pre-Algebra
- MAT 090 Introductory Algebra
- MAT 099 Intermediate Algebra (previously MAT 106 Survey of Algebra)
- MAT 101 Enhanced Mathematics Support
- MAT 103 Math for Clinical Calculations

Natural & Physical Sciences

BIO 090 Basic Biology Concepts

Reading

REA All courses

APPROVED ELECTIVES LIST FOR THE ASSOCIATE OF GENERAL STUDIES DEGREE

General Education Elective credit for the Associate of General Studies degree must be completed from the following list of approved prefixes and courses. Selection of elective credits and course sequencing should be done in consultation with an advisor.

ACC	101, 121, 122
AGY	240
AIR	All AIR courses in this catalog
ANT	All ANT courses in this catalog
ARA	All ARA courses in this catalog
ARM	All ARM courses in this catalog
ART	All ART courses in this catalog
ASL	121, 122, 123, 221, 222
AST	All AST courses in this catalog
BIO	105, 106, 111, 112, 115, 160, 201, 202, 204, 208, 216, 221, 222
BUS	115, 203, 216, 217, 226
CHE	All CHE courses in this catalog
CHI	All CHI courses in this catalog
CIS	115, 118
COM	All COM courses in this catalog
CRJ	110, 111, 112, 125, 127, 135, 145, 205, 209, 210, 220, 230, 235, 236, 257
CSC	All CSC courses in this catalog

DAN	All DAN courses in this catalog (Max. of 3 credits PED, OUT, & DAN permitted for degree in addition to DAN 125 (Arts & Humanities))
ECO	All ECO courses in this catalog
ENG	121 and above
ENV	101
ETH	All ETH courses in this catalog
FRE	All FRE courses in this catalog
GEO	All GEO courses in this catalog
GER	All GER courses in this catalog
GEY	All GEY courses in this catalog
HIS	All HIS courses in this catalog
HUM	All HUM courses in this catalog
HWE	100, 103, 110, 124
ITA	All ITA courses in this catalog
JOU	All JOU courses in this catalog
JPN	All JPN courses in this catalog
LIT	All LIT courses in this catalog
MAN	226
MAR	216, 220
MAT	120 and above
MET	All MET courses in this catalog
MGD	133, 221, 222, 233
MUS	All MUS courses in this catalog
OUT	All OUT courses in this catalog (Max. of 3 credits PED, OUT & DAN permitted for degree in addition to DAN 125 (Arts & Humanities))
PED	All PED courses in this catalog (Max. of 3 credits PED, OUT & DAN permitted for degree in addition to DAN 125 (Arts & Humanities))
PHI	All PHI courses in this catalog
PHY	All PHY courses in this catalog
POS	All POS courses in this catalog
PSY	All PSY courses in this catalog
RUS	All RUS courses in this catalog
SCI	All SCI courses in this catalog
SOC	All SOC courses in this catalog
SPA	All SPA courses in this catalog
THE	All THE courses in this catalog
WST	All WST courses in this catalog
GT	All Guaranteed Transfer courses in this catalog

Note: This list applies only to courses shown in the FRCC catalog, and to transfer credit which is equivalent to FRCC Catalog courses. Transfer courses which are identified with "999" course numbers (with the exception of Career Technical Electives) are also approved as elective credit.

Associate of Applied Science Degree

This degree prepares students to enter either skilled or paraprofessional occupations, or to upgrade in their current employment. These programs are not intended to transfer to bachelor's degree programs, but certain courses may be accepted toward a bachelor's degree at some institutions. FRCC awards the Associate of Applied Science Degree upon completion of a specific approved program listed in this

catalog.

Assessment testing is required for all students. Students who place into ENG 090 (or above), and MAT 099 (or above), and REA 090 (or above) may begin this program of study. Students scoring below this level should consult with a faculty member before registering for courses in this program of study.

Approved General Education Electives List for Associate of Applied Science Degree

• Communications:

ENG	121 and above
COM	All COM courses in this catalog

• Arts and Humanities:

ARA	All ARA courses in this catalog
ART	All ART courses in this catalog
ASL	121, 122, 123, 221, 222
CHI	All CHI courses in this catalog
DAN	125
FRE	All FRE courses in this catalog
GER	All GER courses in this catalog
HUM	All HUM courses in this catalog
ITA	All ITA courses in this catalog
JPN	All JPN courses in this catalog
LIT	All LIT courses in this catalog
MUS	All MUS courses in this catalog
PHI	All PHI courses in this catalog
RUS	All RUS courses in this catalog
SPA	All SPA courses in this catalog
THE	All THE courses in this catalog
WST*	All WST courses in this catalog *see AAS Elective Notes

• Mathematics:

MAT	120 and above
-----	---------------

• Science:

AST	All AST courses in this catalog
BIO	All BIO courses in this catalog
CHE	All CHE courses in this catalog
GEO*	111, 112 *see AAS Electives Notes
GEY	All GEY courses in this catalog
MET	All MET courses in this catalog
PHY	All PHY courses in this catalog
SCI	All SCI courses in this catalog

• Social Science:

ANT	All ANT courses in this catalog
ECO	All ECO courses in this catalog
ETH	All ETH courses in this catalog
GEO	All GEO courses in this catalog
HIS	All HIS courses in this catalog

HWE	100, 103, 110, 124
POS	All POS courses in this catalog
PSY	All PSY courses in this catalog
SOC	All SOC courses in this catalog
WST*	All WST courses in this catalog * see AAS Electives Notes
GT	All Guaranteed Transfer courses in this catalog

* AAS Electives Notes:

1. WST may be used to fulfill an arts and humanities or social science and behavioral requirement, but not both.
2. GEO 111, 112 may be used to fulfill a physical and life science or social and behavioral science requirement, but not both.

No more than 6 semester credits in independent study or internships in these approved prefixes may be applied to the Associate of Applied Science degree.

Note: This list applies only to courses shown in the FRCC catalog, and to transfer credit which is equivalent to FRCC Catalog courses. Transfer courses which are identified with "999" course numbers (with the exception of Career Technical Electives) are also approved as elective credit.

Specific Certificate Requirements

- See instructional program, for specific certificate requirements.
- See commencement and graduation procedures in this catalog.

Courses Not Applicable to Any Degree or Certificate

Advancement of Academic Achievement:

AAA	All courses
-----	-------------

English:

ENG 030	Basic Writing Skills
ENG 060	Writing Fundamentals
ENG 090	Basic Composition
ENG 110*	English Usage and Grammar * Applies only when specified as a certificate or an Associate of Applied Science Degree requirement.

English as a Second Language:

ESL	All courses
-----	-------------

General Education Development:

GED	All courses
-----	-------------

Mathematics:

MAT 030	Fundamentals of Mathematics
MAT 060	Pre-Algebra
MAT 090	Introductory Algebra
MAT 099	Intermediate Algebra
MAT 101	Enhanced Mathematics Support
MAT 103*	Math for Clinical Calculations * Applies only when specified as a certificate or an Associate of Applied Science Degree requirement.

Reading:

REA All courses

Instructional Programs

At Front Range Community College, students may take classes to earn an associate degree or a certificate from among more than 100 areas. Credits from the State Guaranteed Education Courses are guaranteed to transfer to Colorado's public four-year institutions. Students may also take classes individually for their enrichment, or career development.

Programs Available by Campus

BC = Boulder County Campus

L = Larimer Campus

W = Westminster Campus

OL = Online

Not all degrees or certificates are available at all sites. Students should consult a schedule of classes to determine course offerings for each campus location.

FRCC also offers courses at the Brighton Center.

Associate Degrees

Associate of Arts

Areas of Designation:

Anthropology	BC, L, W, OL
Business	BC, L, W, OL
Criminal Justice	BC, L, W, OL
Economics	BC, L, W, OL
French	BC, L, W, OL
History	BC, L, W, OL
Political Science	BC, L, W, OL
Psychology	BC, L, W, OL
Sociology	BC, L, W, OL
Spanish	BC, L, W, OL

State transfer agreements also approved for AA degrees in:

Early Childhood Education	BC, L, W
Elementary Education	BC, L, W

Associate of General Studies

Areas of Concentration:

No Specified Area of Concentration	BC, L, W
------------------------------------	----------

Associate of Science

Areas of Designation:

Mathematics	BC, L, W, OL
Psychology	BC, L, W, OL

Associate of Applied Science

Accounting (ACC)	BC, L, W, OL
Animal Laboratory Technology (ALT)	L

Applied Technology	BC, L, W
Architectural Engineering and Construction Technology (AEC)	L, W

Areas of Concentration:

Architectural and Building Science	L, W
------------------------------------	------

Automotive Technology (ASE)	L, W
------------------------------------	------

Business (BUS)	BC, L, W, OL
-----------------------	--------------

Areas of Concentration:

Accounting	BC, L, W, OL
------------	--------------

Business Specialization	L, W
-------------------------	------

International Business	BC, L, W
------------------------	----------

Management	BC, L, W
------------	----------

Marketing	BC, L, W
-----------	----------

Small Business Management	BC, L, W
---------------------------	----------

Clean Energy Technology	L
--------------------------------	---

Areas of Concentration:

Electrical/Mechanical	L
-----------------------	---

Power Technology	L
------------------	---

Computer-Aided Drafting & Design (CAD)	L, W
---	------

Computer Information Systems (CIS)	BC, L, W, OL
---	--------------

Areas of Concentration:

Individualized Area of Concentration	BC, L, W
--------------------------------------	----------

Microsoft Network Administration	BC, L, W
----------------------------------	----------

Programming	BC, L, W
-------------	----------

Cisco CCNA Wide Area Networks	BC, L, W
-------------------------------	----------

Web Developer	BC, L, W
---------------	----------

Early Childhood Education	BC, L, W
----------------------------------	----------

Forestry, Wildlife and Natural Resources (AQT) (GIS) (NRE)	L
---	---

Health Information Technologies (HIT)	W
--	---

Heating, Ventilation and Air Conditioning (HVA)	L
--	---

Holistic Health (HHP)	L
------------------------------	---

Horticulture and Landscape Technologies (HLT)	L, W
--	------

Hospitality & Culinary Arts Management (HOS)	
---	--

Areas of Concentration:

Advanced Culinary Arts	L
------------------------	---

Hotel Management	L
------------------	---

Restaurant Management	L
-----------------------	---

Special Events Planning	L
-------------------------	---

Interior Design (IND)	L, W
------------------------------	------

Interpreter Preparation (IPP)	W
--------------------------------------	---

Medical Office Technology (MOT)	BC
--	----

Areas of Concentration:

Billing Specialist	BC
--------------------	----

Medical Administrative Assisting	BC
----------------------------------	----

Medical Assisting	BC
-------------------	----

Multimedia Technology (MGD)	BC, L, W
------------------------------------	----------

Areas of Concentration:

Animation	BC, W
Print and Presentation	BC, W
Video	BC, W
Web Media	BC, W
Nursing (NUR)	L, W
Paralegal Studies (PAR)	W, OL
Veterinary Technology (VET)	L
Welding Technology (WEL)	L, W

Certificates Available by Campus

BC = Boulder County Campus

L = Larimer Campus

W = Westminster Campus

OL = Online

Not all degrees or certificates are available at all sites. Students should consult a schedule of classes to determine course offerings for each campus location.

FRCC also offers courses at the Brighton Center.

Certificates

Accounting (ACC) Certificates	
Enrolled Agent	BC, L, W, OL
Animal Laboratory Technology (ALT) Certificates	
Basic Laboratory Animal Care	L
Laboratory Animal Care and Management	L
Architectural Engineering and Construction Technology (AEC) Certificates	
Architectural Drafting	L, W
Building Science & Sustainable Design	L, W
Structural Drafting	L, W
Automotive Technology (ASE) Certificates	
Advanced Drivability Diagnosis	W
Automatic Transmission/Transaxle	L, W
Brakes	L, W
Electrical/Electronic Systems	L, W
Engine Performance	L, W
Engine Repair	L, W
Heating and Air Conditioning	L, W
Light Diesel Engine Repair	L
Manual Drivetrain and Axles	L, W
Suspension and Steering	L, W
Business (BUS) Certificates	
Business Specialization	BC, L, W, OL
International Business Basics	BC, L, W, OL
Management Basics	BC, L, W, OL
Marketing Basics	BC, L, W, OL
Retail Management	BC, L, W, OL

Small Business Management Basics	BC, L, W, OL
Clean Energy Technology Certificate	
Clean Energy Technology Core	L
Computer-Aided Drafting and Design (CAD) Certificates	
Advanced Architectural Computer-Aided Drafting	L, W
Advanced Mechanical CAD	L, W
Animation and Visualization CAD	L, W
Basic Computer-Aided Drafting and Design (CADD)	L, W
Basic Mechanical CAD	L, W
Civil CAD	L, W
Landscape CAD Technician	L, W
Computer Information Systems (CIS) (CNG) Certificates	
Applications Specialist	BC, L, W, OL
CISCO Network Associate	BC
Computer Technician: A+	BC, L, W
Computer Technician: Network+	BC, L, W
Microsoft Network Administration	BC, L, W
Programming	BC, L, W, OL
Web Authoring	BC, L, W, OL
Web Developer	BC, L, W
Dental Assisting (DEA) Certificate	L
Early Childhood Education (ECE) Certificates	
Director	BC, L, W, OL
Early Childhood Teacher	BC, L, W, OL
Infant-Toddler Nursery Supervisor	BC, L, W
Early Childhood Education for Paraeducators	BC, L, W
Foundations for Paraeducators	BC, L, W
Emergency Medical Services (EMT) Certificates	
Emergency Medical Technician	BC, L, W
Pre-Paramedic	BC, L, W
Forestry, Wildlife, and Natural Resources (AQT) (FST) (NRE) Certificates	
Environmental Education	L
Forestry	L
Natural Resources	L
Natural Resources Geographic Information Systems	L
Natural Resources Recreation	L
Wildland Fire	L
Wildlife	L
Geographic Information Systems (GIS) Certificates	
Geographic Information Systems	BC
GIS Fundamentals	BC

Heating, Ventilation, and Air Conditioning (HVA) Certificates

Residential Air Conditioning and Heating	L
Light Commercial Air Conditioning and Heating	L
Commercial Refrigeration	L

Holistic Health (HHP) Certificates

Aromatherapy	L
Holistic Health	L
Massage Therapy	L
Reflexology	L
Yoga Teacher	L

Horticulture and Landscape Technologies (HLT) Certificates

Floral Design	L
Horticulture	L, W
Irrigation Contracting and Management	W
Landscape CAD Technician	L, W
Landscape Contracting Technician	L, W
Landscape Maintenance Technician	L, W
Landscape Design	L, W
Nursery, Greenhouse and Garden Center Management	L, W
Turfgrass Management	L, W
Urban Agriculture Management	L, W

Hospitality & Culinary Arts Management (HOS) Certificates

Culinary Arts	L
Events Planning Coordinator	L
Food and Beverage Management	L
Hotel Operations	L

Interior Design (IND) Certificates

Kitchen & Bath Design	L, W
-----------------------	------

Medical Office Technology (MOT) Certificates

Billing Specialist	BC
Clinical Office Assistant	BC
Health Care Office Assistant	BC
Medical Administrative Assistant	BC
Medical Assistant	BC
Medical Transcriptionist	BC

Multimedia Technology (MGD) Certificates

Animation	BC, W
Digital Imaging	L
Graphic Design Technician	L, W
Multimedia General	BC, W
Multimedia Print/Presentation	BC, W
Multimedia Video	W

Multimedia Web	BC, W
Nurse Aide (NUA) Certificate	BC, L, W
Nursing Certificate	
Practical Nursing	BC
Paralegal Studies (PAR) Certificates	
Legal Assistant	W, OL
Pharmacy Technician (PHT) Certificate	W
Phlebotomy Certificate	L
Teaching English as a Second Language (TEL) Certificates	
Teaching English as a Second Language Abroad (TESL-A)	BC, L
Teaching English as a Second Language K-12 (TESL-K)	BC
Veterinary Technician Assistant (VET) Certificate	L
Welding Technology (WEL) Certificates	
Comprehensive Welding	L, W
Gas Metal Arc Welding (MIG)	L, W
Gas Tungsten Arc Welding (TIG)	L, W
Oxyacetylene Welding	L, W
Pipe Code Welding	L, W
Creative Metalworking	L, W
Shielded Metal Arc Welding	L, W
Welding Fundamentals	L, W

Degrees and Certificates

Accounting - Associate of Applied Science Degree

Code: F_AAS_ACC2

Campus: Boulder County, Larimer, Westminster and Online

This program offers a range of courses that provide an introduction to accounting theory and practice, as well as more extensive exposure to accounting applications in selected areas.

Courses meet the diverse needs of students and of clerical and paraprofessional accounting personnel in business, industry, government, and other economic organizations.

The AAS degree in accounting prepares students for job entry or job upgrading within a wide variety of clerical and paraprofessional positions in the accounting field. The program provides students with knowledge and skills needed to work effectively under the supervision of controllers, chief accountants, accounting supervisors, certified public accountants, and other professional accountants.

Note: Students are required to meet with an accounting program advisor to develop an educational plan before completing any elective courses.

For further information, contact Deb Craven at (303)-678-3868 for the Boulder Campus, Lauren Smith at (970)-204-8171 for the Larimer Campus, and Kevin McFarlane at (303)-404-5490 for the Westminster Campus.

All courses in both the degree and certificate programs must be completed with a "C" or above to graduate.

Assessment testing is required for all students. Students who place into ENG 090 (or above), MAT 090 (or above), and REA 090 (or above) may begin this program of study. Students scoring below this level should consult with a faculty member before registering for courses in this program of study.

Explanation of */**/** follows the certificate requirements.

REQUIRED COURSES	CREDITS
ACC 101* Fundamentals of Accounting	3
ACC 121 Accounting Principles I	4
ACC 122 Accounting Principles II	4
ACC 135 Spreadsheet Applications for Accounting	3
ACC 245 Computerized Accounting with a Professional Package	3
ACC 289 Capstone: Company Financial Overview or ACC 280 Accounting Internship	1
Total Required Credits	18
REQUIRED ELECTIVE COURSES	CREDITS
<i>Select 6 credits from the following: (must be approved by accounting advisor)</i>	
ACC 115 Payroll Accounting	3
ACC 131 Income Tax	3
ACC 132 Tax Help Colorado ****	2
ACC 133 Tax Help Colorado Practicum ****	1

ACC 211 Intermediate Accounting I	4
ACC 212 Intermediate Accounting II	4
ACC 216 Government and Not-for-Profit	3
ACC 226 Cost Accounting	3
ACC 231 Business Tax	3
ACC 255 VITA Volunteer Income Tax Assistance	3
ACC 269 Accounting Systems	3
ACC 294 Service Learning	3
Total Elective Credits	6
REQUIRED BUSINESS SUPPORT COURSES	CREDITS
BUS 217 Business Communication and Report Writing	3
CIS 135 Complete PC Word Processing: WORD	3
CIS 155* PC Spreadsheet Concepts: Excel	3
Elective Business Courses */**/**	12
Total Required Business Support Credits	21
REQUIRED GENERAL EDUCATION COURSES	CREDITS
ENG 121 English Composition I or ENG 131 Technical Writing I or ENG 110 English Usage and Grammar	3
MAT 107 Career Mathematics or higher MAT course	3
Arts and Humanities Elective***	3
Natural or Physical Sciences Elective***	3
Social Science Elective***	3
Total Required General Education Credits	15
Total Required Credits for AAS Degree	60

Accounting - Certificate

Code: F_CER_ACC2

Campus: Boulder County, Larimer, Westminster and Online

This accounting certificate prepares students for job entry into a wide variety of clerical and technical positions that have a recordkeeping or bookkeeping component. In consultation with an accounting faculty advisor, the certificate can be tailored to meet the needs of students who have already achieved significant skills and knowledge in basic accounting fundamentals and/or computer applications. The program assumes that students have previous knowledge and skill in basic computer applications in a Microsoft Windows operating environment. Students without prior computer experience should remedy any computer deficiencies before beginning the certificate course of study. Consulting with an accounting faculty advisor is strongly recommended before beginning the accounting certificate program. Explanation of * follows the certificate requirements.

REQUIRED COURSES	CREDITS
ACC 101* Fundamentals of Accounting	3
ACC 115 Payroll Accounting	3
ACC 121 Accounting Principles I	4
ACC 245 Computerized Accounting with a Professional Package	3
BUS 217 Business Communication and Report Writing	3

CIS 135 Complete PC Word Processing: Word	3
CIS 155* PC Spreadsheet Concepts: Excel	3
Total Required Credits	22
REQUIRED ELECTIVE COURSES	CREDITS
<i>Select 3 credits from the following:</i>	
ACC 122 Accounting Principles II	4
ACC 131 Income Tax	3
ACC 132 Tax Help Colorado ****	2
ACC 133 Tax Help Colorado Practicum ****	1
ACC 135 Spreadsheet Applications for Accounting	3
ACC 226 Cost Accounting	3
ACC 255 VITA - Volunteer Income Tax Assistance	3
ACC 269 Accounting Systems	3
BUS 216 Legal Environment of Business	3
CIS 145 Complete PC Database: ACCESS	3
Total Required Credits for Certificate	25

Notes:

* Students who have taken high school or other equivalent introductory coursework, or who have significant practical experience in these areas, should consult with an accounting faculty advisor to consider alternatives. This is particularly important for the decision of whether to take ACC 101, since ACC 101 may not be taken after ACC 121. Should a student decide to start accounting courses with ACC 121, the three credits for ACC 101 must be satisfied with an approved business elective; however an accounting course is recommended.

** Elective business courses (ACC, BUS, CIS, ECO, MAN, MAR, MGD) must be taken as needed to meet the 60 credit hours minimum for the degree. These courses must be ACC, BUS, CIS, ECO, MAN, MAR, or MGD courses, with prior approval from an accounting faculty advisor. In addition, general education electives must be selected from the Approved Course List for the AAS degree in the Program Completion and Graduation Requirements section of this catalog.

*** Choose a course from the Approved General Education Electives List for the AAS degree.

Accounting - Enrolled Agent Certificate

Code: F_CER_ENRA

Campus: Boulder County, Larimer, Westminster and Online

This accounting certificate allows students to gain the necessary practical skills needed to study for and take the IRS Special Enrollment Examinations. An enrolled agent is certified by the IRS to perform income tax preparation for individuals, corporations, estates, and trusts.

In consultation with an accounting faculty advisor, this certificate can be tailored to meet the needs of students who have already achieved significant knowledge and skills in tax preparation.

The program assumes that students have previous knowledge and skill in basic computer applications in a Microsoft Windows operating environment. Students without prior computer experience should remedy any computer deficiencies before beginning the certificate course of study.

Consulting with an accounting faculty advisor is strongly recommended before beginning the enrolled agent certificate program.

REQUIRED COURSES	CREDITS
ACC 121 Accounting Principles I	4

ACC 122 Accounting Principles II	4
ACC 131 Income Tax	3
ACC 132 Tax Help Colorado ****	2
ACC 133 Tax Help Colorado Practicum ****	1
ACC 231 Business Taxation	3
ACC 245 Computerized Accounting with a Professional Package	3
ACC 255 VITA - Volunteer Income Tax Assistance	3
ACC 265 Enrolled Agent Review Course	3
MAN 230 Corp Ethics and Social Responsibility Or PHI 205 Business Ethics	3
Total Required Credits for Certificate	29

Notes:

* Students who have taken high school or other equivalent introductory coursework, or who have significant practical experience in these areas, should consult with an accounting faculty advisor to consider alternatives. This is particularly important for the decision of whether to take ACC 101, since ACC 101 may not be taken after ACC 121. Should a student decide to start accounting courses with ACC 121, the three credits for ACC 101 must be satisfied with an approved business elective; however an accounting course is recommended.

** Elective business courses (ACC, BUS, CIS, ECO, MAN, MAR, MGD) must be taken as needed to meet the 60 credit hours minimum for the degree. These courses must be ACC, BUS, CIS, ECO, MAN, MAR, or MGD courses, with prior approval from an accounting faculty advisor. In addition, general education electives must be selected from the Approved Course List for the AAS degree in the Program Completion and Graduation Requirements section of this catalog.

*** Choose a course from the Approved General Education Electives List for the AAS degree.

Accounting Transfer

The AAS degree in accounting, as presented above, is offered primarily as a job-entry or job-advancement program, rather than as a transfer program. Selected courses may transfer to some four-year colleges, but such transfer is neither standardized nor consistent.

ACC 121 Accounting Principles I and 122 Accounting Principles II are the courses that ordinarily transfer entirely or partially to most college business programs.

Students whose primary objective is to transfer to a baccalaureate business or accounting degree program should consult both an accounting faculty advisor and an FRCC academic advisor before declaring a major and before selecting accounting or business courses.

Animal Laboratory Technology - Associate of Applied Science

Code: F_AAS_ALT

Campus: Larimer

This two-year program is designed to meet the demands of the biomedical research community for qualified personnel in the care and management of laboratory animals. Technicians certified in Laboratory Animal Technology are central to the integrity of biomedical research, assuring a high standard of humane care for research animals.

For more information, contact the office of Mardie Altman, program director 970-204-8415

Please see the Associate Degree chapter and the Colorado

Guaranteed Transfer Program for General Education section for elective requirement details.

REQUIRED COURSES	CREDITS
ALT 126 Introduction to Lab Animal Science	3
ALT 226 Animal Care and Management	3
ALT 280 Lab Animal Internship	3
BIO 111 General College Biology I with Lab	5
BIO 115 Human Genetics	3
COM 115 Public Speaking	3
ECO 202 Principles of Microeconomics	3
HPR 178 Medical Terminology	1
VET 106 Exotic Animal Care and Management	2
VET 116 Humane Treatment and Handling of Animals	3
VET 205 Veterinary Anatomy and Physiology I	4
VET 227 Animal Nutrition	2
VET 241 Clinical Laboratory Procedures	4
Total Required Credits	39
REQUIRED ELECTIVE COURSES	CREDITS
<i>Select 1 of the following:</i>	
ETH 224 Introduction to Chicano Studies	
HIS 101 Western Civilization: Antiquity to 1650	
HIS 111 The World: Antiquity to 1500	
LIT 201 Masterpieces of Literature I	
LIT 202 Masterpieces of Literature II	
POS 205 International Relations or POS 225 Comparative Government	
POS 215 Current Political Issues	
Total Elective Credits	3
REQUIRED GENERAL EDUCATION COURSES	CREDITS
Arts & Humanities:	
<i>Select any 2 approved Arts & Humanities GT electives for 6 credit hours. (2 courses from 2 different categories - AH1: Arts; AH2: Literature & Humanities; AH3: Ways of Thinking; or AH4: Foreign Language).</i>	6
English:	
ENG 121 English Composition I	3
Math:	
MAT 121 College Algebra (4 credits hours) and MAT 135 Introduction to Statistics (3 credit hours)	7
Natural and Physical Sciences:	
CHE 105 Chemistry in Context (5 cr. hrs.) or CHE 101 Introduction to Chemistry I (5 cr. hrs.) or CHE 111 General College Chemistry I (5 cr. hrs.)	5

Other:

<i>Select 1 of the following:</i>	3
ANT 107 Introduction to Archaeology	
HIS 102 Western Civilization: 1650 to Present	
HIS 112 The World: 1500 to Present or HIS 208 American Indian History	
HIS 201 U.S. History to the Reconstruction	
HIS 202 U.S. History since the Civil War	
Total Required General Education Credits	24
Total Required Credits for AAS Degree	66

Basic Laboratory Animal Care - Certificate

Code: F_CER_BLAC
Campus: Larimer

REQUIRED COURSES	CREDITS
ALT 126 Introduction to Lab Animal Science	3
ALT 280 Lab Animal Internship	3
HPR 178 Seminar: Medical Terminology	1
VET 106 Exotic Animal Care & Management	2
VET 116 Humane Treatment and Handling of Animals	3
Total Required Credits	12

Laboratory Animal Care and Management - Certificate

Code: F_CER_LACM
Campus: Larimer

REQUIRED COURSES	CREDITS
ALT 226 Animal Care and Management	3
VET 205 Veterinary Anatomy & Physiology I	4
VET 227 Animal Nutrition	2
VET 241 Clinical Laboratory Procedures	4
Total Required Credits	13

Applied Technology - Associate of Applied Science Degree

Code: F_AAS_APT1
Campus: Boulder County, Larimer and Westminster

Students desiring to complete the AAS degree in Applied Technology may complete the technical coursework contained in a state-approved certificate career and technical education program at one of the four Area Vocational Technical Schools (AVTS). The four AVTS are: Delta-Montrose Area Vocational Technical Center, Emily Griffith Opportunity School, San Juan Basin Technical College, and Pickens Tech Center.

The general education and other degree requirements are completed at one of the Colorado public community/junior colleges. The AAS degree is conferred by the community college at which the general education and other degree

requirements have been completed.

The approved certificate career and technical education programs at the AVTS prepare students with technical, applied academic, and employability skills. Credit in varying amounts from these certificate programs is applicable to the community college's AAS degree in Applied Technology.

Individual coursework from the AVTS is credited to the student's transcript upon completion of the requirements of both institutions. Students may enroll concurrently at both an AVTS and a community college. Students must comply with the regulations and requirements relating to admission and attendance at each institution.

Minimum requirements for the AAS degree in Applied Technology include the completion of:

1. Minimum of 60 semester credits of coursework.
2. All courses in both the degree and certificates must be completed with a "C" or above to graduate.
3. Fifteen (15) semester credits of general education courses.
4. Forty-five (45) semester credits from an individual state approved program at one of the AVTS. If the AVTS program certificate is less than 45 semester credits, the program certificate credits plus elective credit hours from the community college are used for the total of at least 45 semester credits.
5. Minimum of 15 semester credits earned at the community college.

REQUIRED GENERAL EDUCATION COURSES	CREDITS
<i>Select from the Approved General Education Electives List for the AAS degree.</i>	
English/Speech Communications	3
Humanities	3
Mathematics	3
Natural & Physical Sciences	3
Social Science	3
Total Required General Education Credits	15
Total Required AVTS Credits	45
Total Required Credits for AAS Degree	60

Architectural Engineering and Construction Technology

Assessment testing is required for all students. Students who place into ENG 090 (or above), MAT 099 (or above), and REA 090 (or above) may begin this program of study. Students scoring below this level should consult with a faculty member before registering for courses in this program of study.

For further information, call Ms. Lisa Compton at 303-404-5612 or email lisa.compton@frontrange.edu for Westminster students. Contact Mr. Jamie Hahn at 970-204-8380 or email jamie.hahn@frontrange.edu for Larimer students.

All courses applied to the degree or certificate must be completed with a grade of "C" or above.

Architectural and Building Science - Associate of Applied Science Degree

Code: F_AAS_ARC

Campus: Larimer and Westminster

This degree is a comprehensive two-year study in architectural drafting, elementary design and building science. The program emphasizes green/sustainable architectural practices and essential technical concepts used in architectural CAD and building information modeling (BIM). It prepares students for employment in the following areas: architectural CAD drafting technician for architectural design and construction firms, governmental entities, large corporations, and manufacturers/suppliers or building products. Graduates may also pursue further study in architecture or engineering.

REQUIRED COURSES	CREDITS
AEC 101 Basic Architectural Drafting	4
AEC 102 Residential Construction Drawing	4
AEC 121 Construction Materials and Systems	3
AEC 122 Construction Practices and Documents	2
AEC 123 Commercial Construction Drawings	4
AEC 200 Building Design Development	3
AEC 208 Building Environmental Systems I	3
AEC 218 Sustainable Building Systems	3
CAD 101 Computer-Aided Drafting I	3
CAD 224 Revit	3
Total Required Credits	32

STUDENTS MUST WORK WITH AN ADVISOR IN ORDER TO SELECT THE 12 ELECTIVE CREDITS FROM AMONG THE FOLLOWING COURSES (THOSE APPROPRIATE IN THE STUDENTS OCCUPATIONAL INTERESTS):

ELECTIVE COURSES	CREDITS
AEC 205 Applied Statics & Strengths of Materials	3
AEC 215 Elementary Site Planning	3
AEC 216 Construction Estimating	3
CAD 102 Computer Aided Drafting II	3
CAD 115 Sketchup	3
CAD 227 Advanced Revit	3
CAD 255 Solidworks	3
ENY 101 Intro to Energy Technologies	3
IND 114 Space Planning	3
IND 200 Kitchen & Bath Design	4
IND 231 Sustainable Design	3
Total Required Elective Credits	12

REQUIRED GENERAL EDUCATION COURSES	CREDITS
ART 121 Drawing I	3
ENG 121 English Composition I (or ENG 131 Technical Writing I)	3
MAT 121 College Algebra	4
MAT 122 College Trigonometry (or an advisor-approved MAT course)	3
PHY 105* Conceptual Physics	4
Total Required General Education Credits	17
Total Required Credits for AAS Degree	61

Note: * Students desiring professional advancement in this field should consider taking PHY 111 Physics: Algebra-Based I with Lab (5 credit hours) to satisfy general education requirements in physics.

Architectural Engineering and Construction Technology - Certificates

Architectural Drafting Certificate

Code: F_CER_DRA1
Campus: Larimer and Westminster

This certificate provides students with entry-level drafting and CAD skills. This certificate emphasizes foundation concepts in building information modeling (BIM).

REQUIRED COURSES	CREDITS
AEC 101 Basic Architectural Drafting	4
AEC 102 Residential Construction Drawing	4
AEC 121 Construction Materials and Systems	3
AEC 122 Construction Practices and Documents	2
AEC 123 Commercial Construction Drawings	4
CAD 101 Computer-Aided Drafting I	3
CAD 102 Computer-Aided Drafting II	3
CAD 224 REVIT	3
Total Required Credits	26
REQUIRED GENERAL EDUCATION COURSES	CREDITS
ART 121 Drawing I	3
ENG 121 English Composition I (or ENG 131 Technical Writing I)	3
MAT 099 Intermediate Algebra (or MAT 121 College Algebra)	4
Total Required General Education Credits	10
Total Required Credits for Certificate	36

Building Science and Sustainable Design Certificate

Code: F_CER_ATES
Campus: Larimer and Westminster

Revisions of the following degree and/or certificates are pending state and federal approval. They will be included in a catalog addendum online when approval is received. Please consult an advisor for more information.

This certificate emphasizes green/sustainable architectural practices and essential technical concepts used in architectural CAD and building information modeling (BIM). Sustainable energy sources are examined.

REQUIRED COURSES	CREDITS
AEC 101 Basic Architectural Drafting	4
AEC 102 Residential Construction Drawing	4
AEC 121 Construction Materials and Systems	3
AEC 122 Construction Practices and Documents	2
AEC 208 Building Environmental Systems I	3
AEC 210 Building Environmental Systems II	3
AEC 218 Sustainable Building Systems	3
CAD 101 Computer-Aided Drafting I	3
CAD 224 Revit	3
ENY 101 Intro to Energy Technologies	3

ENY 235 Energy Systems Design	3
IND 231 Sustainable Design or	3
HLT 120 Principle of Xeriscape	
Total Required Credits for Certificate	37

Structural Drafting Certificate

Code: F_CER_ATES
Campus: Larimer and Westminster

This certificate provides students with skills in structural drafting, detailing and CAD as related to steel, concrete and timber building structures.

REQUIRED COURSES	CREDITS
AEC 101 Basic Architectural Drafting	4
AEC 102 Residential Construction Drawing	4
AEC 121 Construction Materials and Systems	3
AEC 122 Construction Practices and Documents	2
AEC 123 Commercial Construction Drawings	4
AEC 205 Applied Statics and Strengths of Materials	3
AEC 206 Applied Structural Analysis	3
CAD 101 Computer-Aided Drafting I	3
CAD 102 Computer-Aided Drafting II	3
CAD 202 Computer-Aided Drafting/3D (or CAD 224 REVIT)	3
Total Required Credits	32
REQUIRED GENERAL EDUCATION COURSES	CREDITS
ART 121 Drawing I	3
ENG 121 English Composition I (or ENG 131 Technical Writing I)	3
MAT 121 College Algebra	4
Total Required General Education Credits	10
Total Required Credits for Certificate	42

Automotive Technology - Associate of Applied Science Degree

Code: F_AAS_AUT
Campus: Larimer and Westminster

This program provides students with entry-level skills and upgrading for those in the automotive field. Program graduates use their technical skills to test, diagnose, and repair the complex mechanical, chemical, and electronic equipment found in today's automobiles. This includes an understanding of the principles associated with engines and drive trains, brakes and alignment, and fuel and emission controls. All automotive technology programs are National Automotive Technician's Education Foundation (NATEF)-accredited, and all program instructors are ASE certified.

Automotive Technology coursework is offered on an open entry basis: students may complete some of the courses, enter the workforce, and then return to complete the program or upgrade a specific skill. Specific courses may not be offered every semester. Working professionals may take individual classes to upgrade skills without earning a degree. Credit may be granted for previous education/training or related work experience. Demonstrated mastery of skills is required. Refer

to Credit for Prior Learning section.

Articulation agreements exist with many local secondary and postsecondary vocational programs. Contact a program advisor to determine whether credit may be awarded for previous training.

Assessment testing is required for all students. Students who place into ENG 060 (or above), MAT 060 (or above), and REA 060 (or above) may begin this program of study. Students scoring below this level should consult with a faculty member before registering for courses in this program of study.

All courses applied to the degree and/or certificate must be completed with a grade of "C" or above.

Students with relevant coursework and/or relevant industry job experience should contact an ASE faculty/advisor to determine if credit can be granted.

REQUIRED COURSES	CREDITS
ASE 101 Automotive Orientation	2
ASE 110 Brakes I	3
ASE 120 Basic Automotive Electricity	2
ASE 123 Automotive Battery, Starting, and Charging Systems	2
ASE 130 General Engine Diagnosis	2
ASE 132 Ignition System Diagnosis and Repair	2
ASE 134 Automotive Emissions	2
ASE 140 Suspension and Steering I	3
ASE 150 Automotive U-Joint and Axle Shaft Service	2
ASE 151 Automotive Manual Transmission/Transaxles and Clutches	2
ASE 152 Differentials and 4WD/AWD Service	2
ASE 161 Engine, Disassembly Diagnosis and Assembly	5
ASE 210 Brakes II	3
ASE 221 Automotive Body Electrical	4
ASE 231 Automotive Computers	2
ASE 233 Fuel Injection and Exhaust Systems	4
ASE 240 Suspension and Steering II	3
ASE 251 Automatic Transmission/Transaxle Diagnosis and Assemblies	5
ASE 265 Automotive Heating and Air Conditioning	5
MTE 110 Manufacturing Communication & Teamwork	3
OR the following 3 courses at Westminster only:	
ASE 160 Automotive Engine Removal and Installation	1
and	
ASE 235 Drivability Diagnosis	1
and	
ASE 250 Automotive Transmission/Transaxle Service	1
Total Required Credits	58
REQUIRED GENERAL EDUCATION COURSES	CREDITS
ENG 121 English Composition I OR ENG 131 Technical Writing I	3
MAT 107 Career Mathematics	3
PHY 105 Conceptual Physics	4

Social Science or Arts and Humanities Elective*	3
General Studies Elective*	3
Total Required General Education Credits	16
Total Required Credits for AAS degree	74

Note: ASE 285 Independent Study may be substituted for any of the ASE modules with permission of the instructor and cannot exceed 12 credit hours. Additional courses are listed and described in the Course Offerings section of this catalog.

* Electives must be selected from the Approved General Education Electives List for the AAS degree.

Automotive Technology - Certificates

Advanced Drivability Diagnosis Certificate

Code: F_CER_AADD
Campus: Westminster

REQUIRED COURSES	CREDITS
ASE 236 Advanced Drivability Diagnosis/Repair	4
ASE 252 Advanced Automatic Transmissions/Transaxles	2
Total Required Credits for Certificate	6

Automatic Transmission/Transaxle Certificate

Code: F_CER_AAUT
Campus: Larimer and Westminster

REQUIRED COURSES	CREDITS
ASE 101 Auto Shop Orientation	2
ASE 150 Automotive U-Joint and Axle Shaft Service	2
ASE 152 Differentials and 4WD/AWD Service	2
ASE 250 Automatic Transmission/Transaxle Service or one of the following program approved electives: MTE 110, ASE 231	1-3
ASE 251 Automatic Transmission/Transaxle Diagnosis and Assemblies	5
Total Required Credits for Certificate	12

Brakes Certificate

Code: F_CER_AUB
Campus: Larimer and Westminster

REQUIRED COURSES	CREDITS
ASE 101 Auto Shop Orientation	2
ASE 110 Brakes I	3
ASE 210 Brakes II	3
Total Required Credits for Certificate	8

Electrical/Electronic Systems Certificate

Code: F_CER_AAEE
Campus: Larimer and Westminster

REQUIRED COURSES	CREDITS
ASE 101 Auto Shop Orientation	2
ASE 120 Basic Automotive Electricity	2
ASE 123 Automotive Battery, Starting and Charging Systems	2
ASE 132 Ignition System Diagnosis and Repair	2
ASE 221 Automotive Body Electrical	4
ASE 231 Automotive Computers	2
Total Required Credits for Certificate	14

Engine Performance Certificate

Code: F_CER_AUTP
Campus: Larimer and Westminster

REQUIRED COURSES	CREDITS
ASE 101 Auto Shop Orientation	2
ASE 120 Basic Automotive Electricity	2
ASE 130 General Engine Diagnosis	2
ASE 132 Ignition System Diagnosis and Repair	2
ASE 134 Automotive Emissions	2
ASE 233 Fuel Injection and Exhaust Systems	4
ASE 235 Drivability Diagnosis or one of the following program approved electives: MTE 110, ASE 231	1-3
Total Required Credits for Certificate	15

Engine Repair Certificate

Code: F_CER_AER
Campus: Larimer and Westminster

REQUIRED COURSES	CREDITS
ASE 101 Auto Shop Orientation	2
ASE 130 General Engine Diagnosis	2
ASE 160 Automotive Engine Removal and Installation or any one of the following program approved electives: MTE 110, ASE 231	1-3
ASE 161 Engine Disassembly, Diagnosis and Assembly	5
Total Required Credits for Certificate	10

Heating and Air Conditioning Certificate

Code: F_CER_ATAC
Campus: Larimer and Westminster

REQUIRED COURSES	CREDITS
ASE 101 Auto Shop Orientation	2
ASE 120 Basic Automotive Electricity	2
ASE 265 Automotive Heating and Air Conditioning	5
Total Required Credits for Certificate	9

Light Diesel Engine Repair

Code: F_CER_ATDT
Campus: Larimer

REQUIRED COURSES	CREDITS
ASE 101 Auto Shop Orientation	2
ASE 120 Basic Automotive Electricity	2
ASE 123 Battery, Starting and Charging Systems	2
DPM 100 Intro to Diesel Mechanics	2
DPM 103 Diesel Engines I	4
DPM 203 Diesel Engines II	4
Total Required Credits for Certificate	16

Manual Drivetrain and Axles

Code: F_CER_AUTW
Campus: Larimer and Westminster

REQUIRED COURSES	CREDITS
ASE 101 Auto Shop Orientation	2
ASE 150 Automotive U-Joint and Axle Shaft Service	2
ASE 151 Automotive Manual Transmission/Transaxle and Clutches	2

ASE 152 Differentials and 4WD/AWD Service	2
Total Required Credits for Certificate	8

Suspension and Steering

Code: F_CER_AUTS
Campus: Larimer and Westminster

REQUIRED COURSES	CREDITS
ASE 101 Auto Shop Orientation	2
ASE 140 Suspension and Steering I	3
ASE 240 Suspension and Steering II	3
Total Required Credits for Certificate	8

Business - Associate of Applied Science Degree

Code: F_AAS_BUS3
Campus: Boulder County, Larimer, Westminster and Online

This program is designed to give students the flexibility to develop a customized business degree. Required courses include foundational business, as well as general education courses. With the assistance of a business faculty advisor, students develop a customized educational plan for their business elective courses. (NOTE: Students are highly encouraged to meet with a business faculty advisor each semester BEFORE registering for classes).

All courses in the degree and certificate programs must be completed with a "C" or above.

Articulation agreements exist with many secondary and post-secondary programs. Contact a program advisor to determine whether credits may be awarded.

For further information, contact Kathleen Dodaro at 303-404-5450 for Westminster Campus, Deborah Craven at 303-678-3868 for Boulder Campus, and Judy Stencil at 970-204-8656 for Larimer Campus.

Assessment testing is required for all students. Students who place into ENG 090 (or above), MAT 099 (or above), and REA 090 (or above) may begin this program of study. Students scoring below this level should consult with a faculty member before registering for courses in this program of study.

REQUIRED MAJOR COURSES	CREDITS
ACC 121 Principles of Accounting I	4
BUS 115 Introduction to Business	3
BUS 216 Legal Environment of Business	3
BUS 217 Business Communication and Report Writing	3
BUS 226 Business Statistics	3
BUS 289 Capstone (final semester)	2
MAN 226 Principles of Management	3
MAN 230 Corp. Ethics and Social Responsibility	3
MAR 216 Principles of Marketing	3
Electives: CIS	3
Electives: ACC, BUS, CIS, CSC, CNG, CWB, ECO, FIN, MAN, MAR, MGD	15
Total Required Major Credits	45
REQUIRED GENERAL EDUCATION COURSES	CREDITS
ECO 201 Principles of Macroeconomics	3

(or ECO 202 Principles of Microeconomics)

ENG 121 English Composition I <i>(or ENG 131 Technical Writing)</i>	3
MAT 121 College Algebra (GT-MA1)	4
Arts and Humanities Elective**	3
Natural & Physical Sciences Elective **	3
Total Required General Education Credits	16
Total Required Credits for AAS Degree	61

Note: ** Electives must be selected from the Approved General Education Electives List for the AAS degree.

Associate of Arts Degree with Business Designation

See the description in the Academic Matters/Associate Degrees section of this catalog.

Business - Certificates

Business Specialization Certificate

Code: F_CER_BSPC
Campus: Boulder County, Larimer, Westminster and Online

Students interested in the business specialization certificate MUST meet with a program advisor. This certificate is targeted at specific business categories and courses must be selected from the following prefixes: ACC, BUS, CIS/CSC/CNG/CWB, MAN, MAR, MGD, or FIN. **Department or Dean approval is required.**

Total Required Credits for Certificate 9

International Business Basics Certificate

Code: F_CER_BIBB
Campus: Boulder County, Larimer, Westminster and Online

This certificate program is designed for individuals who seek to develop and improve skills in international business.

REQUIRED COURSES	CREDITS
BUS 115 Introduction to Business	3
BUS 203 Introduction to International Business	3
MAR 240 International Marketing	3
Total Required Credits for Certificate	9

Management Basics Certificate

Code: F_CER_BMMB
Campus: Boulder County, Larimer, Westminster and Online

This certificate program is designed for individuals who seek to develop and improve their business management skills.

REQUIRED COURSES	CREDITS
BUS 115 Introduction to Business	3
BUS 217 Business Communication and Report Writing	3
MAN 226 Principles of Management	3
Total Required Credits for Certificate	9

Marketing Basics Certificate

Code: F_CER_MMB
Campus: Boulder County, Larimer, Westminster and Online

This certificate program prepares students to perform marketing, administration, or support functions in

organizations related to promotion, sales, public relations, retailing, or advertising operations.

REQUIRED COURSES	CREDITS
MAR 111 Principles of Sales	3
MAR 216 Principles of Marketing	3
MAR 220 Principles of Advertising	3
Total Required Credits for Certificate	9

Retail Management Certificate

Code: F_CER_BRM
Campus: Boulder County, Larimer, Westminster and Online

This certificate program prepares students for the fast-paced changes taking place in the retail and grocery industry, so they are prepared to fill the numerous and varied management opportunities available. This broad program is appropriate for retailers AND suppliers and is endorsed by the Western Association of Food Chains (WAFC). All of the WAFC member grocery chains recognize this unique Retail Management Certificate (www.wafc.com). Some classes will be offered in hybrid, online, or 7 1/2 week formats.

REQUIRED COURSES	CREDITS
ACC 101 Fundamentals of Accounting (OR ACC 121 Accounting Principles I - 4 credits)	3
BUS 217 Business Communication and Report Writing OR ENG 121 English Composition I	3
MAT 107 Career Math (or higher) OR BUS 226 Business Statistics	3
CIS 115 Introduction to Computer Information Systems OR CIS 118 Intro to PC Applications	3
COM 115 Public Speaking	3
MAN 128 Human Relations in Organizations	3
MAN 200 Human Resources Management I	3
MAN 226 Principles of Management	3
MAR 117 Principles of Retailing	3
MAR 216 Principles of Marketing	3
Total Required Credits for Certificate	30

Small Business Management Basics Certificate

Code: F_CER_SBM6
Campus: Boulder County, Larimer, Westminster and Online

This certificate program prepares students for the entrepreneurial challenge of starting and operating a business effectively.

REQUIRED COURSES	CREDITS
BUS 115 Introduction to Business	3
MAN 216 Small Business Management	3
MAR 216 Principles of Marketing	3
Total Required Credits for Certificate	9

Clean Energy Technology - Associate of Applied Science Degree

Code: F_AAS_CLET
Campus: Larimer

The focus of this program is to prepare individuals for entry-level work in the growing clean energy industry as well as careers in manufacturing and conventional energy. The program includes a one-year certificate that forms the basis for a two-year Associate of Applied Science Degree. The first year will focus on providing a sound foundation in the basic skills that apply to the broad range of industries in the region. Skills include Clean Energy and Manufacturing Fundamentals, Safety, Engineering Materials, AC/DC Fundamentals, Metrology, and Teamwork and Communications. Year two will provide students with the option of selecting one of two pathways: Electrical/Mechanical or Power Technology.

Assessment testing is required for all students, although in some cases, recent transcripts or ACT/SAT test scores take the place of assessment testing. Students who place into ENG 090 (or above), MAT 099 (or above), and REA 060 (or above) may apply to begin this program of study. Students scoring below this level should consult with FRCC advising before applying for this program of study. The above course prerequisites must be successfully completed before a student can apply for entry into this program. The Clean Energy website listed below has detailed information regarding applying for acceptance into the program.

All courses applied to the degree must be completed with a grade of "C" or above.

For more information, or to apply for the program, visit the Clean Energy Technology program website at <http://www.frontrange.edu/cleanenergy> or email cleanenergyinfo@frontrange.edu.

AAS Degree with Electrical/Mechanical Concentration

REQUIRED CORE COURSES	CREDITS
ELT 106 Fundamentals of DC/AC	3
MTE 105 Safety for Manufacturing Environment	1
MTE 106 Print Reading for Manufacturing	3
MTE 130 Metrology	3
MTE 125 Methods of Statistical Process Control	3
MTE 110 Manufacturing Communication & Teamwork	3
ENY 160 Manufacturing & Energy	3
EGT 201 Engineering Materials	3
Total Required Credits	22
ELECTRICAL/MECHANICAL CONCENTRATION	
ELT 107 Fundamentals of Industrial Electronics	3
ELT 147 Digital Devices I	3
ELT 205 Electronic Troubleshooting I	3
ELT 258 Programmable Logic Controllers	3
MAC 138 Machine Tools	3
MTE 238 Industrial Fluid Power & Controls	3
MTE 244 Lean Manufacturing	3
ENY 122 Wind Energy & Photovoltaics	3

ENY 280 Internship OR	1
ENY 289 Energy Technology Capstone	
Total Credits for Concentration	25
REQUIRED GENERAL EDUCATION COURSES	
CIS 118 Computer Applications	3
ENG 115 Technical English & Communication	3
MAT 108 Technical Mathematics	4
PHI 112 Ethics	3
PHY 105 Conceptual Physics	4
Social Science Elective	3
Possibilities include courses (each are 3 credit hours) such as:	
ECO 201 Principles of Macroeconomics	
ECO 202 Principles of Microeconomics	
HIS 201 U.S. History I	
POS 111 American Government	
PSY 101 General Psychology I	
Total Required General Education Credits	20
Total Required Credits for AAS Degree with Electrical/Mechanical Concentration	67

AAS Degree with Power Technology Concentration

REQUIRED CORE COURSES	CREDITS
ELT 106 Fundamentals of DC/AC	3
MTE 105 Safety for Manufacturing Environment	1
MTE 106 Print Reading for Manufacturing	3
MTE 130 Metrology	3
MTE 125 Statistical Process Control	3
MTE 110 Manufacturing Communication & Teamwork	3
ENY 160 Manufacturing & Energy	3
EGT 201 Engineering Materials	3
Total Required Credits	22
POWER TECHNOLOGY CONCENTRATION	
PPT 105 Basic Plant Operation	2
ELT 147 Digital Devices I	3
PPT 116 Instrumentation and Control	3
PPT 210 Steam Turbines	3
PPT 215 Power Generation	3
PPT 118 Substations & Transformers	3
PPT 204 Interconnected System Operations	3
ENY 122 Wind Energy & Photovoltaics	3
ENY 280 Internship OR	1
ENY 289 Energy Technology Capstone	
Total Credits for Concentration	24
REQUIRED GENERAL EDUCATION COURSES	
CIS 118 Computer Applications	3
ENG 115 Technical English & Communication	3
MAT 108 Technical Mathematics	4
PHI 112 Ethics	3

PHY 105 Conceptual Physics	4
Social Science Elective	3
Possibilities include courses (each are 3 credit hours) such as:	
ECO 201 Principles of Macroeconomics	
ECO 202 Principles of Microeconomics	
HIS 201 U.S. History I	
POS 111 American Government	
PSY 101 General Psychology I	
Total Required General Education Credits	20
Total Required Credits for AAS Degree with Power Technology Concentration	66

Clean Energy Technology Certificate

Code: F_CER_CLET
Campus: Larimer

REQUIRED PROGRAM COURSES	CREDITS
ELT 106 Fundamentals of DC/AC	3
MTE 105 Safety for Manufacturing Environment	1
MTE 106 Print Reading for Manufacturing	3
MTE 130 Metrology	3
MTE 125 Statistical Process Control	3
MTE 110 Manufacturing Communication & Teamwork	3
ENY 160 Manufacturing and Energy	3
EGT 205 Engineering Materials	3
Total Required Credits	22
GENERAL EDUCATION REQUIRED COURSES	CREDITS
ENG 115 Technical English & Communication	3
MAT 108 Technical Mathematics	4
PHY 105 Conceptual Physics	4
CIS 118 Computer Applications	3
Total Required General Education Credits	14
Total Required Credits for Certificate	35

Computer-Aided Drafting and Design - Associate of Applied Science Degree

Code: F_AAS_CAD4
Campus: Larimer and Westminster

This program provides advanced CAD skills to the student seeking a career within computer-aided drafting and design. The student will complete 2D and 3D projects using the most current releases of the CAD software. Upon completion of this AAS degree, the student is prepared to enter the workforce as a CAD technician.

This program will meet unique computer-aided drafting and design, CAD illustration, and graphics needs. With the growth of employment needs in small- to mid-sized companies, employers are increasingly seeking employees with advanced and specialized computer-aided drafting skills.

Coursework is offered on an open-entry basis: students may complete some of the courses, enter the workforce, and then return to complete the program or upgrade a specific skill. Some courses may not be offered every semester or at every campus. Please work with a program advisor in selection of your courses. Please contact Claudia Romero, 970-204-8632 at the Larimer Campus or Lisa Compton, 303-404-5612, at the Westminster Campus.

All courses applied to the degree must be completed with a grade of "C" or above.

REQUIRED COURSES	CREDITS
CAD 100 Print Reading for CAD	3
CAD 101 Computer-Aided Drafting I	3
CAD 102 Computer-Aided Drafting II	3
CAD 201 Computer-Aided Drafting/Custom	3
CAD 202 Computer-Aided Drafting/3D	3
CAD 115 Sketchup	3
CAD 219 3D/Max	3
CAD 289 Capstone	3
Required Electives: CIS, MGD	6
<i>Choose one of the following drawing courses:</i>	
AEC 101 Basic Architectural Drafting	4
EGT 101 Technical Drafting I	3
EGT 143 Civil/Survey Drafting	3
HLT 130 Landscape Graphics Studio	3
Total Required Credits	33
REQUIRED GENERAL EDUCATION COURSES	CREDITS
ART 121 Drawing I	3
ENG 131 Technical Writing I	3
MAT 121 College Algebra	4
Natural & Physical Sciences elective from the AAS General Education Electives List	3
Social and Behavioral Sciences elective from the AAS General Education Electives List	3
Total Required General Education Credits	16
<i>DRAFTING AND CAD ELECTIVE COURSES:</i>	
Students must work with a CAD program advisor in order to select at least 13 credits from among the following courses: (Those appropriate in the student's occupational interests)	
AEC 102 Residential Construction Drawing	4
AEC 215 Elementary Site Planning	3
AEC 123 Commercial Construction Drawings	4
CAD 216 Advanced Google Sketchup	3
CAD 220 3D/Max Advanced	3
CAD 224 Revit Architecture	3
CAD 222 Navisworks/AutoDesk	3
CAD 225 AutoCAD Architecture	3
CAD 227 Advanced Revit Architecture	3
CAD 229 Revit Structure	3
CAD 233 Civil 3D/Autodesk	3
CAD 240 Inventor I/Autodesk	3
CAD 244 Advanced Inventor	3

CAD 255 Solidworks/Mechanical	3
CAD 259 Advanced Solidworks	3
GIS 101 Intro to Geographic Information Systems	3
HLT 140 Landscape Design & Planning	4
IND 114 Space Planning	3
IND 200 Kitchen & Bath Design I	4
IND 261 Advanced Kitchen & Bath Design	4
MTE 110 Manufacturing Communication and Teamwork	3
Total Required Elective Credits	13
Total Required Credits for AAS Degree	62

Computer-Aided Drafting and Design - Certificates

This program provides career opportunities to the advanced computer-aided drafting and design technician. It is designed to offer advanced training for the professional and technician already in the field or for students in a related drafting program.

Assessment testing is required for all students. Students who are reading at the college level and place into ENG 090 (or above), MAT 099 (or above), and REA 090 (or above) may begin this program of study. All courses applied to the certificates must be completed with a grade of "C" or above.

Advanced Architectural Computer-Aided Drafting Certificate

Code: F_CER_CADA
Campus: Larimer and Westminster

See also *Architectural Engineering and Construction Technology*.

This certificate offers advanced training in CAD for the professional or technician already employed in the field, or for students working towards the architectural concentration within the CAD or Architectural Engineering and Construction Technology programs.

All courses applied to the certificates must be completed with a grade of "C" or above.

REQUIRED COURSES	CREDITS
CAD 115 Sketchup	3
CAD 216 Advanced Google Sketchup	3
CAD 202 Computer-Aided Drafting/3D	3
CAD 219 3D/MAX	3
CAD 224 Revit Architecture	3
CAD 227 Advanced Revit Architecture	3
CAD 289 Capstone (or AEC 280 Internship or AEC 285 Independent Study)	3
Any MGD Course	3
Total Required Credits for Certificate	24

Advanced Mechanical CAD Certificate

Code: F_CER_CADX
Campus: Larimer and Westminster

This certificate prepares students to become proficient in the use of advanced mechanical computer-aided drafting with a concentration in Mechanical CAD applications.

REQUIRED COURSES	CREDITS
CAD 201 Computer-Aided Drafting/Custom	3
CAD 202 Computer Aided Drafting/3D	3
CAD 216 Advanced Google Sketchup	3
CAD 219 3D/Max	3
CAD 240 Inventor I/AutoDesk	3
CAD 255 Solidworks/Mechanical	3
CAD 289 Capstone	3
ELECTIVES (CHOOSE 3 Credits)	3
MTE 110 Manufacturing Communication and Teamwork or CAD 244 Advanced Inventor or CAD 259 Advanced Solidworks or EGT 205 Geometric Dimensioning & Tolerance	
Total Required Credits for Certificate	24

Animation and Visualization CAD Certificate

Code: F_CER_CADV
Campus: Larimer and Westminster
See also *Multimedia Technology*.

This certificate prepares students to become proficient in the use of computer-aided drafting with a concentration in 3D graphics and animation and visualization applications.

REQUIRED COURSES	CREDITS
CAD 101 Computer-Aided Drafting I	3
CAD 102 Computer-Aided Drafting II	3
CAD 202 Computer-Aided Drafting/3D	3
CAD 115 Sketchup	3
CAD 216 Advanced Google Sketchup	3
CAD 219 3D/Max	3
CAD 220 3D/Max Advanced	3
CAD 289 Capstone	3
MGD Electives	3
Total Required Credits for Certificate	27

Basic Computer-Aided Drafting and Design Certificate

Code: F_CER_CAD4
Campus: Larimer and Westminster

This certificate prepares students to become proficient in the use of computer-aided drafting.

REQUIRED COURSES	CREDITS
CAD 100 Print Reading for CAD	3
CAD 101 Computer-Aided Drafting I*	3
CAD 102 Computer-Aided Drafting II*	3
CAD 115 Sketchup	3
CAD 201 Computer-Aided Drafting/Custom	3
CAD 202 Computer-Aided Drafting/3D	3
Total Required Credits for Certificate	18

*Interior Design Students must take CAD105 AutoCAD for Interiors (4 Credits) and CAD 216 Advanced Google Sketchup (3 credits), instead of CAD 101 and CAD 102.

Basic Mechanical CAD Certificate

Code: F_CER_CADM
Campus: Larimer and Westminster

This certificate provides instruction in basic drafting and the use of CAD technology.

REQUIRED COURSES	CREDITS
CAD 100 Print Reading for CAD	3
CAD 101 Computer-Aided Drafting I	3
CAD 102 Computer-Aided Drafting II	3
CAD 115 Sketchup	3
CAD 201 Computer-Aided Drafting/Custom	3
CAD 202 Computer-Aided Drafting/3D	3
EGT 101 Technical Drafting I	3
Total Required Credits for Certificate	21

Civil CAD Certificate

Code: F_CER_CDV1
Campus: Larimer and Westminster

This certificate prepares students to become proficient in the use of computer-aided drafting with a concentration in Civil CAD applications.

REQUIRED COURSES	CREDITS
EGT 143 Civil/Survey Drawing	3
AEC 215 Elementary Site Planning	3
CAD 101 Computer-Aided Drafting I	3
CAD 102 Computer-Aided Drafting II	3
CAD 115 Sketchup	3
CAD 202 Computer-Aided Drafting/3D	3
CAD 233 Civil 3D/Autodesk (or GIS 101 Introduction to Geographic Information Systems)	3
CAD 289 Capstone	3
Total Required Credits for Certificate	24

Landscape CAD Technician Certificate

Code: F_CER_CADL
Campus: Larimer and Westminster

See also Horticulture and Landscape Technologies.

This certificate integrates instruction in CAD technologies, landscape design and landscape construction to prepare students to become proficient in the use of computer-aided drafting as it is used in the landscape architecture and landscape design field.

REQUIRED COURSES	CREDITS
CAD 101 Computer-Aided Drafting I	3
CAD 102 Computer-Aided Drafting II	3
CAD 115 Sketchup	3
CAD 202 Computer-Aided Drafting/3D	3
CAD 289 Capstone or HLT 287	3
HLT 130 Landscape Graphics Studio	3
Total Required Credits	18
REQUIRED ELECTIVE COURSES	CREDITS
Select an additional 12 credits from the following HLT courses:	
HLT 120 Principles of Xeriscape	2
HLT 140 Landscape Design and Planning	4

HLT 235 Principles of Grading and Drainage	3
HLT 236 Landscape Construction	4
HLT 237 Landscape Bidding and Estimating	2
HLT 250 Landscape Irrigation Design	3
Total Required Credits for Certificate	30

Computer Information Systems - Associate of Applied Science Degree

Code: F_AAS_CIS4
Campus: Boulder County, Larimer, Westminster and Online

This program is designed to prepare students for employment in the computer information field. Although the courses are not intended for transfer, some courses may transfer. Course transferability should be confirmed with the receiving institution.

The degree offers areas of concentration within the computer information systems discipline. Students may select an area of concentration that best meets their career goals.

Students entering the degree and certificate programs should have adequate skills in keyboarding, internet, mathematics, oral and written communications, and the ability to read at an appropriate technical level.

Please note that Credit by Examination and CLEP tests are available for many required and elective courses. Please see a CIS advisor to determine the availability of such exams.

All courses applied to the degree must be completed with a grade of "C" or above.

Assessment testing is required for all students. Students who place into ENG 090 (or above), MAT 099 (or above), and REA 090 (or above) may begin this program of study.

REQUIRED COURSES	CREDITS
CIS 115 Introduction to Computer Information Systems	3
CIS 118 Introduction to PC Applications	3
CIS 128 Operating System: using Microsoft Windows (or approved CIS, CNG, CSC or CWB elective)	3
Total Required Credits	9

REQUIRED GENERAL EDUCATION COURSES	CREDITS
ENG 121 English Composition I (or ENG 131 Technical Writing I)	3
MAT 121 College Algebra	4
Arts and Humanities Elective*	3
Natural & Physical Sciences Elective*	3
Social and Behavioral Sciences Elective*	3
Total Required General Education Credits	16

Total Required Credits for Area of Concentration **35**
(see Areas of Concentration below)

Total Required Credits for AAS Degree **60**

Note: * Electives must be selected from the Approved General Education Electives List for the AAS degree.

Computer Information Systems - Areas of Concentration

To fulfill the remaining requirements for the CIS degree, students must complete one of the following areas of

concentration. Students may consult with a CIS advisor to develop an individualized area of concentration that may best meet their professional needs. Once agreed upon and approved, the individualized area of concentration becomes part of the student's graduation requirements and permanent record. However, the required major and general education courses are not subject to change.

Cisco CCNA - Computer Wide Area Networks Concentration

code: F_AAS_CIS4_CWAN

Campus: Boulder County, Larimer, and Westminster

REQUIRED COURSES	CREDITS
CNG 121 Computer Technician I: A+	4
CNG 122 Computer Technician II: A+	4
CNG 124 Networking I: Network+	3
CNG 125 Networking II: Network+	3
CNG 230 Fast Track CCNA 1 and 2	5
CNG 231 Fast Track CCNA 3 and 4	5
Electives: (see advisor)	11
Total Required Credits for Concentration	35

Individualized Area of Concentration

Code: F_AAS_CIS4,CISS

Campus: Boulder County, Larimer and Westminster

In consultation with a CIS program advisor, the student may develop an individualized area of concentration that is more related to the student's employment or skill development. It should be noted that required major and general education courses of the program are not subject to change. Once approved, the developed area of concentration becomes part of the student's permanent record, and courses must be selected from the following prefixes:

Electives: ACC, BUS, CIS, CNG, CSC, CWB, MAN, MAR, MGD

Total Required Credits for Concentration	35
---	-----------

Microsoft Network Administration

Code: F_AAS_CIS4_CMNA

Campus: Boulder County, Larimer, and Westminster

REQUIRED COURSES	CREDITS
CNG 121 Computer Technician I: A+	4
CNG 122 Computer Technician II: A+	4
CNG 124 Networking I: Network+	3
CNG 125 Networking II: Network+	3
CNG 131 Network Security Fundamentals or	3
CNG 217 Implementing Security for Microsoft Networks	or 4
CNG 211 Windows Configuration	3
CNG 212 Managing a MS Windows Server Environment	4
CNG 213 Implementing a MS Windows Network infrastructure	4
Electives: (see advisor)	6-7
Total Required Credits for Concentration	34-36

Programming

Code: F_AAS_CIS4,CPGM

Campus: Boulder County, Larimer, Westminster and Online

REQUIRED COURSES	CREDITS
CIS 145 Complete PC Database: Access	3
CSC 160 Computer Science I: C++	4
CSC 161 Computer Science II: C++	4
Total Required Credits	11

ADDITIONAL REQUIRED COURSES **CREDITS**

Select an additional 9 credits from the following:

CSC 154 Introduction to Microsoft Visual Basic.net Programming	3
CSC 230 C Programming	3
CSC 233 Object Oriented Programming in C++	3
CSC 240 Java Programming	3
CSC 241 Advanced Java Programming	3
CSC 251 Programming with Microsoft VB.net	3

Total Additional Required Credits	9
--	----------

REQUIRED ELECTIVE COURSES **CREDITS**

Select 15 elective credits from the following:

CIS, CNG, CSC, CWB, MAT 201 or higher	15
---------------------------------------	-----------

Total Required Credit for Concentration	35
--	-----------

Web Developer

Code: F_AAS_CIS4,DVL

Campus: Boulder County, Larimer and Westminster

REQUIRED COURSES	CREDITS
CIS 145 Complete PC Database: Access	3
CIS 244 PL/SQL	3
CSC 116 Logic and Programming Design	3
CWB 110 Complete Web Authoring	3
CWB 205 Complete Web Scripting (Javascript)	3
CWB 208 Web Application Development (PHP)	3
CWB 289 Capstone (or MGD 289 Capstone)	2
MGD 111 Adobe Photoshop	3
MGD 141 Web Design I (or CWB 130 Complete Web Editing Tools)	3
MGD 143 Motion Graphics Software	3
MGD 241 Web Design II	3
MGD 243 Motion Graphics Software II	3
Total Required Credit for Concentration	35

Computer Information Systems - Certificates

Applications Specialist Certificate

Code: F_CER_CAPS

Campus: Boulder County, Larimer, Westminster and Online

This certificate is designed to prepare students for entry-level employment positions as data entry and data processing operators using most major types of business applications: word processing, spreadsheets, databases, and presentation graphics.

Program applicants must demonstrate course proficiency or course completion of CIS 128 Windows Complete.

All certificate courses must be completed with a grade of "C" or above.

REQUIRED COURSES	CREDITS
CIS 118 Introduction to PC Applications	3
CIS 135 Complete PC Word Processing: Word	3
CIS 145 Complete PC Database: Access	3
CIS 155 PC Spreadsheet Concepts: Excel	3
Total Required Credits for Certificate	12

CISCO Network Associate Certificate

Code: F_CER_CNWA
Campus: Boulder County

This certificate is designed to prepare students for entry-level employment in the computer-networking field. It is oriented toward support of a broad range of technical customers who use networking products in business and industry networking applications for the Internet. The certificate covers basic to advanced networking concepts including pulling cable, subnet masking, rules and strategies. Upon successful completion, the program graduate is qualified to take the CISCO Certified Network Associate examination. Students must demonstrate proficiency in using Windows.

All certificate courses must be completed with a grade of "C" or above.

REQUIRED COURSES	CREDITS
CNG 230 Fast Track CCNA 1 and 2	5
CNG 231 Fast Track CCNA 3 and 4	5
Total Required Credits for Certificate	10

Computer Technician: A+ Certificate

Code: F_CER_CINC
Campus: Boulder County, Larimer and Westminster

REQUIRED COURSES	CREDITS
CNG 121 Computer Technician I: A+	4
CNG 122 Computer Technician II: A+	4
Total Required Credits for Certificate	8

Computer Technician: Network+ Certificate

Code: F_CER_CMCI
Campus: Boulder County, Larimer and Westminster

REQUIRED COURSES	CREDITS
CNG 124 Networking I: Network+	3
CNG 125 Networking II: Network+	3
Total Required Credits for Certificate	6

Microsoft Network Administration Certificate

Code: F_CER_NMC
Campus: Boulder County, Larimer and Westminster

This certificate is designed to prepare students for senior roles as network administrators and for the core Microsoft Certified Professional examinations leading to the MCSA and MCSE.

Students must demonstrate course proficiency or course completion of CIS 128 Windows Complete or permission of instructor.

All certificate courses must be completed with a grade of "C" or above.

REQUIRED COURSES	CREDITS
CNG 211 Windows Configuration	3
CNG 212 Managing a MS Windows Server Environment	4
CNG 213 Implementing a MS Windows Network Infrastructure	4
CNG 131 Network Security Fundamentals (3)	3
OR	4
CNG 217 Implementing Security for Microsoft Networks (4)	
Total Required Credits for Certificate	14-15

Programming Certificate

Code: F_CER_CTPA
Campus: Boulder County, Larimer, Westminster and Online

This certificate is designed to prepare students for the application of selected programming languages that include courses in a combination of computer information systems as well as computer science.

All certificate courses must be completed with a grade of "C" or above.

REQUIRED COURSES	CREDITS
CIS 145 Complete PC Database: Access	3
CSC 160 Computer Science I: C++	4
CSC 161 Computer Science II: C++	4
Total Required Credits	11

ADDITIONAL REQUIRED COURSES	CREDITS
<i>Select 9 credits from the following:</i>	
CSC 154 Introduction to Microsoft Visual Basic.net Programming	3
CSC 230 C Programming	3
CSC 233 Object Oriented Programming in C++	3
CSC 240 Java Programming	3
CSC 241 Advanced Java Programming	3
CSC 251 Programming with Microsoft VB.net	3
Total Additional Required Credits	9
Total Required Credits for Certificate	20

Web Authoring Certificate

Code: F_CER_WBDV
Campus: Boulder County, Larimer, Westminster and Online

This certificate provides entry-level skills in web page creation and web site maintenance. It is designed to provide students with the ability to create and/or manage a personal or business web site.

Program applicants must demonstrate course proficiency or course completion of CIS 128 Windows Complete.

All certificate courses must be completed with a grade of "C" or above.

REQUIRED COURSES	CREDITS
CWB 110 Complete Web Authoring	3
CWB 130 Complete Web Editing Tools (or MGD 141 Web Design I)	3
CWB 205 Complete Web Scripting	3
MGD 102 Introduction to Multimedia	3

(or MGD 111 Adobe Photoshop I)
(or MGD 112 Adobe Illustrator I)

Total Required Credits for Certificate	12
---	-----------

Web Developer Certificate

Code: F_CER_CSWB
Campus: Boulder County, Larimer and Westminster

REQUIRED COURSES	CREDITS
CIS 145 Complete PC Database: Access	3
CIS 244 PL/SQL	3
CSC 116 Logic and Programming Design	3
CWB 110 Complete Web Authoring	3
CWB 205 Complete Web Scripting (Javascript)	3
CWB 208 Web Application Development (PHP)	3
CWB 289 Capstone (or MGD 289 Capstone)	2
MGD 111 Adobe Photoshop	3
MGD 141 Web Design I (or CWB 130 Complete Web Editing Tools)	3
MGD 241 Web Design II	3
Total Required Credit for Concentration	29

Dental Assisting - Certificate

Code: F_CER_DEA1
Campus: Larimer

This certificate program offers a challenging career in the rapidly growing field of dental assisting. In addition to assisting dentists in all phases of dental treatment, dental assistants are valuable members of the dental team with skills in office management, clinical assisting, laboratory procedures, dental radiography, and infection control.

The Front Range Dental Clinic, staffed by licensed dentists, provides a clinical experience, as well as an internship feature of the program. The Commission on Dental Accreditation of the American Dental Association accredits the program, a special accrediting body recognized by the Council on Postsecondary Accreditation and by the U.S. Department of Education. Graduates are eligible for the Dental Assisting National Board Examination. Students must have a high school diploma or GED.

In order to graduate, a "C" grade must be earned in all courses required for the program. Completion of radiology courses qualifies students to take radiographs in the State of Colorado.

Assessment testing is required for all students. Students who place into ENG 090 (or above) MAT 090 (or above) and REA 090 (or above), may begin this program of study. Students scoring below this level should consult with a faculty member before registering for courses in this program of study.

REQUIRED COURSES	CREDITS
DEA 102 Principles of Clinical Practice	3
DEA 104 Specialties in Dentistry	2
DEA 111 Dental Office Management	2
DEA 120 Introduction to Dental Practices	1
DEA 121 Dental Science I	3
DEA 122 Dental Science II	3
DEA 123 Dental Materials I	3

DEA 124 Dental Materials II	3
DEA 125 Dental Radiography	3
DEA 126 Infection Control	3
DEA 131 Advanced Dental Radiography	3
DEA 132 Medical Emergencies in the Dental Office	2
DEA 134 Prevention and Nutrition in Dentistry	2
DEA 181 Clinical Internship I	1
DEA 182 Clinical Internship II and Seminar	6
DEA 183 Clinical Internship III	2
General Studies Elective*	3
Total Required Credits for Certificate	45

Note: * Electives must be selected from the Approved General Education Electives List for the AAS degree.

Early Childhood Education - Associate of Applied Science Degree

Code: F_AAS_ECE
Campus: Boulder County, Larimer and Westminster

This program provides training for those who want to pursue a career involving the care and education of young children from birth through age eight. Courses in theory and internship are combined to provide a comprehensive base of growth and development. Early intervention, high-risk, gifted, and developmentally delayed issues are included. The program meets all Colorado Department of Human Services licensing requirements. Those working with very young children need to be in good health and able to lift and carry young children comfortably.

Students must earn a grade of "C" or above in all required courses applied to a certificate or degree.

Assessment testing is required for all students. Students who place into ENG 090 (or above), MAT 090 (or above), and REA 090 (or above) may begin this program of study. Students scoring below this level should consult with a faculty member before registering for courses in this program of study.

Students enrolling in ECE 102, ECE 112, ECE 180, and ECE 280 must pass a criminal background check before they are allowed to start their practicum hours with children. Contact your home campus ECE Program Director or the FRCC – ECE Online Lead if you are enrolling in an online section for a practicum course for information on how to complete the background check process.

REQUIRED COURSES	CREDITS
ECE 101 Introduction to Early Childhood Education	3
ECE 102 Introduction to Early Childhood Lab Techniques	3
ECE 103 Guidance Strategies for Children	3
ECE 111 Infant and Toddler Theory and Practice	3
ECE 155 Family and Parenting Issues	1
ECE 179 Seminar	2
ECE 180 Practicum	3
ECE 205 Nutrition, Health and Safety	3
ECE 220 Curriculum Development: Methods and Techniques	3

ECE 238 Child Growth and Development	3
ECE 240 Administration of Early Childhood Care and Education Programs	3
ECE 241 Administration: Human Relations for Early Childhood Education	3
ECE 260 Exceptional Child	3
ECE 279 Seminar	2
ECE 280 Practicum	3
ECE Elective (program advisor approval) (see ECE electives below)	4
Total Required Credits	45
REQUIRED GENERAL EDUCATION COURSES	CREDITS
ENG 121 English Composition I	3
MAT 107 or above	3
Natural & Physical Sciences or Humanities elective	3
Sociology elective	3
Psychology elective	3
Total Required General Education Credits	15
Total Required Credits for AAS Degree	60
ECE ELECTIVE COURSES	CREDITS
<i>Choose 4 credits from the following with program advisor approval:</i>	
ECE 108 The Assessment Process in Early Childhood Education	1
ECE 112 Introduction to Infant/Toddler Lab Techniques	3
ECE 127 Music/Movement for the Young Child	1
ECE 157 Family Dynamics	1
ECE 160 Behavior Management Techniques in Early Childhood Education	1
ECE 161 The Team Process	1
ECE 162 Transitions for Handicapped Adolescents	1
ECE 163 Facilitating Functional Skills for Communication	2
ECE 175 Special Topics	1-3
ECE 188 Practicum	1
ECE 195 School Age Child in Child Care	2
ECE 209 Observing Young Children	1
ECE 225 Language and Cognition for the Young Child	3
ECE 226 Creativity and the Young Child	3
ECE 228 Language and Literacy	3
ECE 236 Child Growth/Development Laboratory	1
ECE 237 Theories & Techniques of Social & Emotional Growth	3
ECE 266 Multicultural Curriculum	3
LIT 255 Children's Literature	3

Colorado Child Care Licensing Requirements

To be Early Childhood Teacher-qualified by the State of Colorado, students must complete a minimum of two 3-credit hour college courses in Early Childhood Education. One of the courses must be ECE 101-Introduction to Early Childhood

Education or ECE 103-Guidance Strategies for Children. In addition, 24 months of verifiable work experience with children under the age of six in a licensed child care setting is required. Contact an ECE advisor for:

1. Specific courses that meet the above course requirements.
2. Assistance in completing the verifiable work experience and/or
3. Other options, as they pertain to community college courses.

To be Director-qualified in a large child care center by the State of Colorado, complete 30 semester hours of specific coursework, plus 24 months of verifiable work experience.

Contact an ECE faculty advisor for additional information concerning the course requirements.

Early Childhood Education - Certificates

Director Certificate

Code: F_CER_ED3

Campus: Boulder County, Larimer, Westminster and Online

REQUIRED COURSES	CREDITS
ECE 101 Introduction to Early Childhood Education	3
ECE 102 Introduction to Early Childhood Lab Techniques	3
ECE 103 Guidance Strategies for Children	3
ECE 111 Infant and Toddler Theory and Practice	3
ECE 205 Nutrition, Health and Safety	3
ECE 220 Curriculum Development: Methods and Techniques	3
ECE 238 Child Growth and Development	3
ECE 240 Administration of Early Childhood Care and Education Programs	3
ECE 241 Administration: Human Relations for Early Childhood Education	3
ECE 260 Exceptional Child	3
Total Required Credits for Certificate	30

Students enrolling in ECE 102 must pass a criminal background check before they are allowed to start their practicum hours with children. Contact your home campus ECE Program Director or the FRCC – ECE Online Lead if you are enrolling in an online section for a practicum course for information on how to complete the background check process.

Note: To meet state requirements, students must also complete 3,640 verifiable hours of direct child care experience with four or more children under the age of six in a licensed child development program. Students completing the AAS degree need 1,820 verifiable hours of direct child-care experience with children under the age of six in a licensed child development program. Students who place in ENG 090 (or above) and REA 090 (or above) may begin the coursework for this certificate.

Early Childhood Education for Paraeducators Certificate

Code: F_CER_PR1

Campus: Boulder County, Larimer and Westminster

This certificate has been developed as an open-entry/open-exit program for those currently employed or those seeking employment to work with developmentally delayed infants,

toddlers, and preschool- and school-age children in inclusive settings.

The coursework in this certificate provides students with the wide range of knowledge and skills including a solid foundation in the normal patterns of growth and development, various disabilities, giftedness, developmentally appropriate teaching techniques, and learning styles of children with developmental delays. These skills prepare paraprofessionals to be effective team members.

REQUIRED COURSES	CREDITS
ECE 101 Introduction to Early Childhood Education	3
ECE 102 Introduction to Early Childhood Lab Techniques	3
ECE 103 Guidance Strategies for Children	3
ECE 155 Family and Parenting Issues or ECE 157 Family Dynamics	1
ECE 161 The Team Process	1
ECE 220 Curriculum and Development: Methods and Techniques	3
ECE 238 Child Growth and Development	3
ECE 260 Exceptional Child	3
Total Required Credits for Certificate	20

Students enrolling in ECE 102 must pass a criminal background check before they are allowed to start their practicum hours with children. Contact your home campus ECE Program Director or the FRCC – ECE Online Lead if you are enrolling in an online section for a practicum course for information on how to complete the background check process.

*Note: ** Selection of elective credits must be approved with an ECE faculty advisor. Options may include general studies courses based on the student's interest and/or career plans. Students who place in ENG 090 (or above) and REA 090 (or above) may begin the coursework for this certificate.*

Early Childhood Teacher Certificate

Code: F_CER_ED5
Campus: Boulder County, Larimer, Westminster and Online

REQUIRED COURSES	CREDITS
ECE 101 Introduction to Early Childhood Education	3
ECE 102 Introduction to Early Childhood Lab Techniques	3
ECE 103 Guidance Strategies for Children	3
ECE 220 Curriculum Development: Methods and Techniques	3
ECE 228 Language and Literacy	3
ECE 238 Child Growth and Development	3
Total Required Credits for Certificate	18

Students enrolling in ECE 102 must pass a criminal background check before they are allowed to start their practicum hours with children. Contact your home campus ECE Program Director or the FRCC – ECE Online Lead if you are enrolling in an online section for a practicum course for information on how to complete the background check process.

Note: To be Early Childhood Teacher-qualified by the State of Colorado, students must complete a minimum of two 3-credit hour courses in Early Childhood Education. One of those courses must be Introduction to Early Childhood Education (ECE 101) or Guidance Strategies for Children (ECE 103). In addition, 24 months of verifiable work experience with children

under the age of 6 in a licensed child care setting is required. Students who place in ENG 090 (or above) and REA 090 (or above) may begin the coursework for this certificate.

Foundations for Paraeducators Certificate

Code: F_CER_PP1
Campus: Boulder County, Larimer and Westminster

REQUIRED COURSES	CREDITS
COM 115 Public Speaking	3
EDU 221 Introduction to Education	3
EDU 288 Practicum II	1
ENG 121 English Composition I	3
PSY 238 Child Development OR ECE 238 Child Growth and Development	3
ECE 260 Exceptional Child	3
Total Required Credits for Certificate	16

Infant-Toddler Nursery Supervisor Certificate

Code: F_CER_EC1
Campus: Boulder County, Larimer and Westminster

This certificate provides students with a solid foundation in the growth and development of infants and toddlers, plus advanced exposure in developing and implementing appropriate nurturing and developmental experiences. Working closely with parents is incorporated, as well as the issues of early intervention, high risk, and developmental delays. This certificate meets the State of Colorado requirements for Infant-Toddler Nursery Supervisor. Students who place in ENG 090 (or above) and REA 090 (or above) may begin the coursework for this certificate.

REQUIRED COURSES	CREDITS
HWE 141 Infant Nutrition	1
ECE 111 Infant and Toddler Theory and Practice	3
ECE 112 Introduction to Infant/Toddler Lab Techniques	3
ECE 155 Family and Parenting Issues	1
ECE 260 Exceptional Child	3
Total Required Credits for Certificate	11

Students enrolling in ECE 112 must pass a criminal background check before they are allowed to start their practicum hours with children. Contact your home campus ECE Program Director or the FRCC – ECE Online Lead if you are enrolling in an online section for a practicum course for information on how to complete the background check process.

Note: The prerequisite for ECE 260 is ECE 238. For this certificate only ECE 111 will substitute for ECE 238.

Early Childhood Education for Transfer - Associate of Arts Degree

Code: F_AA_AA, ECET
Campus: Boulder County, Larimer and Westminster

Assessment testing is required for all students. Students who place into ENG 090 (or above), MAT 090 (or above), and REA 090 (or above) may begin this program of study. Students scoring below this level should consult with a faculty member before registering for courses in this program of study.

This degree prepares students for transfer into the area of early childhood education at a four-year college or university. Students should consult with a program advisor to select electives appropriate to the institution to which they intend to transfer.

Students enrolling in ECE 102, ECE 112, ECE 180, and ECE 280 must pass a criminal background check before they are allowed to start their practicum hours with children. Contact your home campus ECE Program Director or the FRCC – ECE Online Lead if you are enrolling in an online section for a practicum course for information on how to complete the background check process.

REQUIRED COURSES	CREDITS
Communications	
ENG 121 English Composition I	3
ENG 122 English Composition II	3
Total Communications Credits	6
Mathematics (select one of the following tracks)	
Track 1:	
MAT 120 Mathematics for the Liberal arts or MAT 121 College Algebra	4
MAT 135 Introduction to Statistics	3
Track 2:	
MAT 155 Integrated Mathematics I	3
MAT 156 Integrated Mathematics II	3
Total Mathematics Credits	6-7
Note: MAT 155 and 156 may not apply to other Associate degrees. Please confirm with an Academic Advisor. Students planning to transfer to CSU should complete Track 1: MAT 120 or MAT 121 and MAT 135	
Arts and Humanities	
ART 110 Art Appreciation or MUS 120 Music Appreciation	3
AND	
LIT 115 Introduction to Literature or LIT 255 Children's Literature	3
Total Arts and Humanities Credits	6
Natural and Physical Sciences	
SCI 155 Integrated Science I with Lab	4
SCI 156 Integrated Science II with Lab	4
Total Natural and Physical Sciences Credits	8
Social and Behavioral Sciences	
GEO 105 World Regional Geography	3
HIS 201 U.S. History I	3
POS 111 American Government	3
Total Social and Behavioral Sciences Credits	9
ECE 101 Introduction to Early Childhood Education	3
ECE 102 Introduction to Early Childhood Lab Techniques	3
ECE 205 Nutrition, Health and Safety	3
ECE 238 Child Growth and Development	3

ECE 188 Practicum or ECE 209 Observing Young Children or ECE 236 Child Growth/Development Laboratory	1
ECE 241 Administration: Human Relations for Early Childhood Education	3
COM 115 Public Speaking (grade of "B" or above is required for degree)	3
Electives: Select in consultation with program advisor	6
Total Required Credits for AA Degree	60

Early Childhood Education for Transfer

Assessment testing is required for all students. Students who place into ENG 090 (or above), MAT 090 (or above), and REA 090 (or above) may begin this program of study.

Early Childhood Education

This degree prepares students for transfer into the area of early childhood education at a four-year college or university. Students should consult with a program advisor to select electives appropriate to the institution to which they intend to transfer.

Elementary Education for Transfer - Associate of Arts Degree

Elementary Education for Transfer

Assessment testing is required for all students. Students who place into ENG 090 (or above), MAT 099 (or above), and REA 090 (or above) may begin this program of study.

Elementary Education

Code: F_AA_AA, EEDT
Campus: Boulder County, Larimer and Westminster

This degree is designed to provide students with the first two years of a baccalaureate degree in elementary education. The degree requirements are based upon a statewide articulation agreement with the teacher education programs in Colorado. Students should consult with a program advisor to select courses based upon the requirements of the institution to which the student intends to transfer.

Emergency Medical Services - Certificates

These certificates prepare students to provide emergency medical services to the general public. Certificate programs include Emergency Medical Technician and Pre-Paramedic. A grade of "C" or above is required for all courses.

Liability insurance and background checks are required for participation in any clinical activity. Also note that immunization requirements also exist for participation in any clinical activity. Contact the campus Emergency Medical Services Program Director for specific immunization requirements for that program/campus.

Assessment testing is required for all students, except those enrolling in some one-semester certificates. Students who place into ENG 090 (or above), and REA 090 (or above) may begin taking this program of study.

Emergency Medical Technician Certificate

Code: F_CER_EMTB

Campus: Boulder County, Larimer and Westminster

REQUIRED COURSES	CREDITS
EMS 121 EMT Fundamentals	3
EMS 122 EMT Medical Emergencies	4
EMS 123 EMT Trauma Emergencies	2
EMS 124 EMT Special Considerations	2
EMS 170 EMT Clinical	1
Total Required Credits for Certificate	12

Pre-Paramedic Certificate

Code: F_CER_EMSP

Campus: Boulder County, Larimer and Westminster

REQUIRED COURSES	CREDITS
BIO 201 Human Anatomy and Physiology I	4
BIO 202 Human Anatomy and Physiology II	4
EMS 121 EMT Fundamentals	3
EMS 122 EMT Medical Emergencies	4
EMS 123 EMT Trauma Emergencies	2
EMS 124 EMT Special Considerations	2
EMS 130 EMT Intravenous Therapy	2
EMS 170 EMT Clinical	1
HPR 178 Medical Terminology	1
HPR 190 Basic EKG Interpretation	2
Total Required Credits for Certificate	25

Engineering for Transfer - Associate of Science Degree

Associate of Science for Transfer in Engineering

Campus: Boulder County, Larimer and Westminster

Please see an advisor for details.

Forestry, Wildlife and Natural Resources - Associate of Applied Science Degree

Code: F_AAS_FWN

Campus: Larimer

This program prepares students for a wide range of careers in natural resources. Students gain practical skills in forestry, wildlife, aquaculture, fisheries, wildland fire, and the computer analysis of natural resources. Students participate in community natural resources projects.

Assessment testing is required for all students. Students who are reading at the college level and place into ENG 090 (or above), MAT 090 (or above), and REA 090 (or above) may begin this program of study. Students scoring below this level should consult with a faculty member before registering for courses in this program of study.

All courses in both the degree and certificate programs must be completed with a "C" or above to graduate.

REQUIRED COURSES	CREDITS
GIS 101 Introduction to Geographic Information Systems	3
NRE 100 Foundations of Forestry	3
NRE 110 Forestry Field Research	3
NRE 205 Wildlife and Fisheries Management Principles	3
Total Required Credits	12
REQUIRED GENERAL EDUCATION COURSES	CREDITS
BIO 111 General College Biology I with Lab (or CHE 101 Introduction to Chemistry I with Lab)	5
ENG 121 English Composition I (or COM 115 Public Speaking)	3
MAT 107 Career Mathematics or higher	3
Arts and Humanities Elective*	3
SOC or PSY Elective*	3
Total Required General Education Credits	17
<i>Note: * Electives must be selected from the Approved General Education Electives List for the AAS degree.</i>	
ELECTIVE COURSES	CREDITS
<i>Select 31 credits from the following:</i>	
AQT 102 Fish Biology	5
AQT 245 Pond Management	5
BIO 221 Botany	5
BIO 222 General College Ecology	4
ENV 101 Introduction to Environmental Science	4
FSW 100 S190 Intro to Wildland Fire	1
FSW 101 S130 Firefighting Training	2
FSW 143 S212 Wildfire chainsaws	2
GIS 210 Intermediate GIS	3
PER 252 Principles of Outdoor Recreation	3
HLT 240 Introductory Soil Science	4
HLT 264 Arboriculture	3
NRE 121 Introduction to Hydrology	3
NRE 200 Ecology: Field Study	3
NRE 215 Fire Ecology	3
NRE 225 Environmental Education	3
NRE 230 Wildlife Law Enforcement	3
NRE 245 Avian Conservation/Ornithology	3
NRE 265 Wilderness Education	3
NRE 278 Seminar	1-3
NRE 280 Internship	1-5
NRE 285 Independent Study	1-5
Total Required Elective Credits	31
Total Required Credits for AAS Degree	60

Note: Students may not apply more than 6 credits in Internship or Independent Study programs to the degree.

Natural Resources For Transfer

Several courses in the Forestry, Wildlife, and Natural Resources programs will transfer into one of the baccalaureate degree

programs at Colorado State University in a natural resources field. Students should meet with an advisor in the Forestry, Wildlife and Natural Resource program to select appropriate courses based upon their transfer objectives.

Forestry, Wildlife and Natural Resources - Certificates

The certificate programs are designed for individuals who are seeking a career in natural resources and possess a degree or are seeking job-entry level skills.

Natural Resources Certificate

Code: F_CER_NRT3
Campus: Larimer

REQUIRED COURSES	CREDITS
GIS 101 Introduction to Geographic Information Systems	3
NRE 100 Foundations of Forestry	3
NRE 110 Forestry Field Research	3
NRE 205 Wildlife and Fisheries Management Principles	3
NRE 280/285 Internship/Independent Study or NRE Elective	4
Total Required Credits for Certificate	16

Forestry Certificate

Code: F_CER_FWN
Campus: Larimer

REQUIRED COURSES	CREDITS
NRE 100 Foundations of Forestry	3
NRE 110 Forestry Field Research	3
NRE 280/285 Internship/Independent Study, or NRE Elective	3
Total Required Credits for Certificate	9

Wildlife Certificate

Code: F_CER_FWND
Campus: Larimer

REQUIRED COURSES	CREDITS
NRE 110 Forestry Field Research	3
NRE 205 Wildlife and Fisheries Management and Principles	3
NRE 230 Wildlife Law Enforcement or	3
NRE 280/285 Internship/Independent Study or NRE Elective	
Total Required Credits for Certificate	9

Wildland Fire Certificate

Code: F_CER_FWNW
Campus: Larimer

REQUIRED COURSES	CREDITS
FSW 100 S190 Intro to Wildland Fire	1
FSW 101 S 130 Firefighting Training	2
NRE 100 Foundations of Forestry (or NRE 110 Forestry Field Research or	3
NRE 280/285 Internship/Independent Study) or NRE Elective	
NRE 215 Fire Ecology	3

Total Required Credits for Certificate **9**

Natural Resources Geographic Information Systems Certificate

Code: F_CER_FWNG
Campus: Larimer

REQUIRED COURSES	CREDITS
GIS 101 Introduction to Geographic Information Systems	3
GIS 210 Intermediate Geographic Information Systems	3
NRE 280/285 Internship/Independent Study or NRE Elective	3
Total Required Credits for Certificate	9

Environmental Education Certificate

Code: F_CER_EEDI
CAMPUS: LARIMER

REQUIRED COURSES	CREDITS
NRE 100 Foundations of Forestry or NRE 205 Wildlife and Fisheries Management Principles	3
NRE 225 Environmental Education	3
NRE 280/285 Internship/Independent Study or NRE Elective	3
Total Required Credits for Certificate	9

Natural Resources Recreation Certificate

Campus: Larimer

REQUIRED COURSES	CREDITS
PER 252 Principles of Outdoor Recreation	3
NRE 265 Wilderness Education or NRE 225 Environmental Education	3
NRE 280/285 Internship/Independent Study or NRE Elective	3
Total Required Credits for Certificate	9

Geographic Information Systems - Certificates

Geographic Information Systems Certificate

Code: F_CER_GIS1
Campus: Boulder County

This certificate provides career opportunities in the expanding field of geographic information systems. Students receive both the necessary theoretical background and practical experience.

Assessment testing is required for all students. Students who place in ENG 090 (or above), MAT 090 (or above), and REA 090 may begin this program of study. Students scoring below this level should consult with a faculty member before registering for courses in this program of study.

A Natural Resources Geographic Information Systems Certificate is also available at the Larimer Campus through Forestry, Wildlife and Natural Resources.

REQUIRED COURSES	CREDITS
BUS 217 Business Communication and Report	3

Writing	
<i>(or ENG 131 Technical Writing I or ENG 121 English Composition)</i>	
GIS 101 Introduction to Geographic Information Systems	3
GIS 110 Introduction to Cartography	3
GIS 210 Intermediate Geographic Information Systems	3
GIS 212 Remote Sensing and Digital Image Processing <i>(or GIS 221 Community Assessment and Analysis - 3 credits)</i>	4
Total Required Credits	15
REQUIRED ELECTIVES	CREDITS
<i>Select 6 credits from the following:</i>	
GIS 150 Relational Database Management GIS Systems	3
GIS 165 GIS Project Management	3
GIS 205 GIS Applications	3
GIS 211 Spatial Data Modeling and Analysis	4
GIS 221 Community Assessment and Analysis	3
GIS 275 Special Topics: GPS Field Studies	1-6
GIS 280 Internship	1-6
Total Required Elective Credits	6
Total Required Credits for Certificate	21

GIS Fundamentals Certificate

Code: F_CER_GISF
Campus: Boulder County

REQUIRED COURSES	CREDITS
GIS 101 Introduction to Geographic Information Systems	3
GIS 110 Introduction to Cartography	3
GIS 210 Intermediate Geographic Information Systems	3
<i>Select 3 credits from the following:</i>	
GIS 150 Relational Database Management Systems	3
GIS 165 GIS Project Management	3
GIS 211 Spatial Data Modeling and Analysis	4
GIS 212 Remote Sensing and Digital Image Processing	4
GIS 221 Community Assessment and Analysis	3
GIS 280 Internship	1-6
GIS 285 Independent Study	1-6
Total Required Credits for Certificate	12

Health Information Technology - Associate of Applied Science Degree

Code: F_AAS_HIT1
Campus: Westminster

This two-year program leads to an Associate of Applied Science (AAS) Degree in Health Information Technology designed to develop the technical skills necessary for managing health information within the healthcare delivery system.

REQUIRED COURSES	CREDITS
HIT 101 Health Information Management Science	6
HIT 105 Principles of Healthcare Reimbursement	3
HIT 111 Health Data Management & Information Systems	3
HIT 112 Legal Aspects Health Records	2
HIT 188 Health Information Practicum I	2
HIT 220 ICD Coding I	3
HIT 221 ICD Coding II	2
HIT 222 Quality Management	3
HIT 225 Health Information Management	3
HIT 231 ICD Coding III	5
HIT 241 CPT Coding Basics Principles	3
HIT 288 Health Information Practicum II	2
HPR 106 Law & Ethics for Health Professions	2
HPR 178 Seminar: Medical Terminology	1
MOT 125 Basic Medical Sciences I	3
MOT 133 Basic Medical Sciences II	3
MOT 135 Basic Medical Sciences III	3
Total Required Credits	49
REQUIRED GENERAL EDUCATION COURSES	CREDITS
COM 125 Interpersonal Communications	3
ENG 121 English Composition I or ENG 131 Technical Writing I	3
MAT 135 Introduction to Statistics	3
PSY 101 General Psychology	3
CIS 118 Introduction to PC Applications	3
Total Required General Education Credits	15
Total Required Credits for AAS Degree	64

Heating, Ventilation, and Air Conditioning - Associate of Applied Science Degree

Code: F_AAS_HVA
Campus: Larimer

This program provides training in basic through advanced heating, ventilation, air conditioning, and refrigeration. Other topics in the program include: basic electricity and electrical components for HVACR, refrigerant tubing, fabrication, soldering, brazing, and trouble shooting, plus residential and commercial heating, hot water heating, industrial controls, advanced troubleshooting, customer service, teamwork, and communication.

All courses applied to the degree or certificate must be completed with a grade of C or above.

Assessment testing is required for all students. Students who place in ENG 090 (or above), MAT 090 (or above), and REA 090 (or above) may begin this program of study. Students scoring below this level should consult with a faculty member before registering for courses in this program of study. Students must complete the Industry Competency Exams (ICE) Residential Air Conditioning and Heating, Light Commercial Air Conditioning and Heating, and Commercial Refrigeration as a requirement

for this AAS degree. Cost of each section of the ICE Exam is \$30.00. Students need to sign up with the Testing Center before taking this exam and pay for the exam at the time of testing.

REQUIRED COURSES	CREDITS
CAD 100 Print Reading for CAD	3
HVA 101 Introduction to Air Conditioning and Refrigeration	4
HVA 102 Basic Refrigeration	4
HVA 103 Basic Electricity	3
HVA 104 Electrical Components for Air Conditioning and Refrigeration	4
HVA 122 Commercial Refrigeration	4
HVA 123 Air Conditioning	4
HVA 124 Advanced Air Conditioning	4
HVA 200 International Residential Code	2
HVA 201 Heating for Commercial Applications	3
HVA 202 Troubleshooting and Customer Service	3
HVA 203 Industrial Controls	3
HVA 247 Hot Water Heating Systems	4
HVA 280 Internship or HVA 289 Capstone	1
MTE 110 Manufacturing Communication and Teamwork or COM 125 Interpersonal Communication	3
Total Required Credits	49
REQUIRED GENERAL EDUCATION COURSES	CREDITS
ENG 131 (or higher) Technical Writing I	3
MAT 107 (or higher) Career Mathematics	3
PHY 105 (or higher) Conceptual Physics	4
General Studies Elective*	3
Social and Behavioral Sciences or Arts and Humanities Elective*	3
Total Required General Education Credits	16
Total Required Credits for AAS Degree	65

Note: * Electives must be selected from the Approved General Education Electives List for the AAS degree.

Heating, Ventilation, and Air Conditioning - Certificates

Residential Air Conditioning and Heating Certificate

Code: F_CER_HVAA
Campus: Larimer

Assessment testing is required for all students. Students who place in ENG 090 (or above), MAT 090 (or above), and REA 090 (or above) may begin this certificate of study. This certificate provides training in basic to advanced air conditioning and heating. Students must complete the Industry Competency Exam (ICE) Residential Air Conditioning and Heating as a requirement of this certificate. Cost of the Residential Air Conditioning and Heating ICE Exam is \$30.00. Students need to sign up with the Testing Center before taking this exam and pay for the exam at the time of testing.

REQUIRED COURSES	CREDITS
HVA 101 Introduction to Air Conditioning and Refrigeration	4
HVA 102 Basic Refrigeration	4
HVA 103 Basic Electricity	3
HVA 104 Electrical Components for Air Conditioning and Refrigeration	4
HVA 123 Air Conditioning	4
HVA 124 Advanced Air Conditioning	4
HVA 200 International Residential Code	2
HVA 202 Troubleshooting and Customer Service	3
HVA 247 Hot Water Heating Systems	4
MTE 110 Manufacturing Communication and Teamwork or COM 125 Interpersonal Communication	3
Total Required Credits for Certificate	35

Light Commercial Air Conditioning and Heating Certificate

Code: F_CER_HVL
Campus: Larimer

Assessment testing is required for all students. Students who place in ENG 090 (or above), MAT 090 (or above), and REA 090 (or above) may begin this certificate of study. This certificate provides training in light commercial air conditioning and heating. Students must complete the Industry Competency Exam (ICE) Light Commercial Air Conditioning and Heating as a requirement of this certificate. Cost of the Light Commercial Air Conditioning and Heating ICE Exam is \$30.00. Students need to sign up with the Testing Center before taking this exam and pay for the exam at the time of testing.

REQUIRED COURSES	CREDITS
HVA 101 Introduction to Air Conditioning and Refrigeration	4
HVA 102 Basic Refrigeration	4
HVA 103 Basic Electricity	3
HVA 104 Electrical Components for Air Conditioning and Refrigeration	4
HVA 123 Air Conditioning	4
HVA 124 Advanced Air Conditioning	4
HVA 200 International Residential Code	2
HVA 201 Heating for Commercial Applications	3
HVA 202 Troubleshooting and Customer Service	3
HVA 203 Industrial Controls	3
MTE 110 Manufacturing Communication and Teamwork or COM 125 Interpersonal Communication	3
Total Required Credits for Certificate	37

Commercial Refrigeration Certificate

Code: F_CER_HVAM
Campus: Larimer

Assessment testing is required for all students. Students who place in ENG 090 (or above), MAT 090 (or above), and REA 090 (or above) may begin this certificate of study. This certificate provides training in residential and commercial refrigeration.

Students must complete the Industry Competency Exam (ICE) Commercial Refrigeration as a requirement of this certificate. Cost of Commercial Refrigeration ICE Exam is \$30.00. Students need to sign up with the Testing Center before taking this exam and pay for the exam at the time of testing.

REQUIRED COURSES	CREDITS
HVA 101 Introduction to Air Conditioning and Refrigeration	4
HVA 102 Basic Refrigeration	4
HVA 103 Basic Electricity	3
HVA 104 Electrical Components for Air Conditioning and Refrigeration	4
HVA 122 Commercial Refrigeration	4
HVA 202 Troubleshooting and Customer Service	3
HVA 203 Industrial Controls	3
MTE 110 Manufacturing Communication and Teamwork or COM 125 Interpersonal Communication	3
Total Required Credits for Certificate	28

Holistic Health - Associate of Applied Science Degree

Code: F_AAS_HLHL
Campus: Larimer

This two year program is designed to prepare students to begin a practice in an area of holistic health, including practitioners in aromatherapy, yoga, reflexology, Reiki, or Jin Shin. Graduates will be aligned to set up their own practices in a stand-alone facility, or work alongside other practitioners in the holistic and medical fields, including wellness facilities, clinics, and hospitals. Graduates are qualified for employment in various government, wellness, and health care organizations. It will prepare students to take national certification exams with an area of emphasis such as aromatherapy, reflexology, yoga, or energy/body work.

Assessment testing is required of all students. Students who place into ENG 090 (or above), MAT 090 (or above), and REA 090 (or above) may begin this program of study. Students scoring below this level should consult with a faculty member before registering for courses in this program of study.

This degree program will be transferable to Metropolitan State College of Denver to be applied towards the Bachelor of Science in Integrative Therapeutic Practices at that college.

All courses in this degree must be completed with a "C" or above to graduate.

REQUIRED GENERAL EDUCATION COURSES	CREDITS
Arts and Humanities: Select 4 credit hours of any Arts & Humanities elective from the Approved General Education Electives List for the AAS degree	4
English: ENG 121 English Composition I: CO1	3
Math: Complete both MAT 121 College Algebra: MA1 (4 credit hours) and MAT 135 Introduction to Statistics: MA1 (3 credit hours)	7

Natural & Physical Sciences: CHE 101 Introduction to Chemistry I: SC1	5
Social & Behavioral Science: PSY 101 General Psychology I: SS3	3
Other: Select 3 credit hours of HIS from the Approved General Education Electives List for the AAS degree	3
Total Required General Education Credits	25

REQUIRED PROGRAM COURSES	CREDITS
HHP 107 Managing Life's Stresses	1
HHP 229 Wellness Counseling	1
HHP 244 Holistic Health Level I	1
HHP 254 Holistic Health Level II	2
HHP 256 Holistic Health Level III	2
HHP 262 Psychoneuroimmunology	0.5
HHP 263 Creating a Holistic Business	2
BIO 201 Human Anatomy & Physiology I: SC1	4
BIO 202 Human Anatomy & Physiology II: SC1	4
COM 125 Interpersonal Communication	3
Total Required Program Credits:	20.5

REQUIRED ELECTIVE COURSES	CREDITS
Select an additional 16 credit hours of HHP courses	16
Total Required Elective Credits	16
Total Required Credits for AAS Degree	61.5

Holistic Health - Certificates

Aromatherapy Certificate

Code: F_CER_HHP2
Campus: Larimer

REQUIRED COURSES	CREDITS
BIO 106 Basic Anatomy & Physiology	4
HHP 204 Applied Aromatherapy	3
HHP 263 Creating a Holistic Business	2
HHP 264 Advanced Aromatherapy for Certification	4
Total Required Course Credits	13
REQUIRED ELECTIVE COURSES	CREDITS
HHP 288 Practicum (2 credit hours)	2
Total Credits Required for Certificate	15

Holistic Health - Certificate

Code: F_CER_HHP1
Campus: Larimer

Assessment testing is required for all students. Students who place in ENG 090 (or above), MAT 090 (or above), and REA 090 may begin this program of study. Students scoring below this level should consult with a faculty member before registering for courses in this program of study.

This certificate program is designed to augment the scope of practice of individuals in the health care profession and to enhance personal growth for the layperson. Holistic health is a

growing profession in delivering alternative practice modalities such as massage therapy and herbology.

REQUIRED COURSES	CREDITS
HHP 229 Wellness Counseling	1
HHP 244 Holistic Health Level I	1
HHP 254 Holistic Health Level II	2
HHP 256 Holistic Health Level III	2
Total Required Course Credits	6
REQUIRED ELECTIVE COURSES	CREDITS
Select HHP courses in consultation with a faculty advisor in the Holistic Health Program.	9
Total Credits Required for Certificate	15

Massage Therapy - Certificate

Code: F_CER_HHM
Campus: Larimer

This 3-4 semester, two year program is designed to prepare students to begin a practice as a massage therapist in the State of Colorado. This certificate program is designed to provide training in basic massage practices and techniques, and includes an opportunity to experience specialized therapeutic massages. Graduates will be prepared to set up their own massage practices in a stand-alone facility, or work alongside other practitioners in the holistic and medical fields. It will prepare students to take the national certification exam through the National Certification Board for Therapeutic Massage and Bodywork. On successful completion of coursework, this certificate also meets the requirements to apply for licensure with the state of Colorado.

Assessment testing is required for all students. Students who place into ENG 090 (or above), and REA 090 (or above) may begin this program of study. Students scoring below this level should consult with a faculty member before registering for courses in this program of study.

All courses in this degree must be completed with a "C" or better to graduate.

Students will be required to meet with an advisor to develop a plan of study with the program director prior to degree start.

REQUIRED MASSAGE COURSES	CREDITS
MST 110 Ethics for Massage Therapy	1
MST 111 Basic Massage Therapy	4
MST 113 Professional Massage	3
MST 178 Seminar	3
MST 184 Clinical Massage I	2
MST 216 Pathology for Massage Therapy	3
MST 284 Clinical Massage II	2
Total Required Massage Course Credits	18
OTHER REQUIRED COURSES	CREDITS
HPR 178 Medical Terminology	2
HPR 117 Anatomical Kinesiology	3
HPR 102 CPR for Professionals	0.5
Total Other Required Course Credits	5.5

REQUIRED HHP COURSES	CREDITS
HHP 208 Adv. Musculoskeletal Anatomy	2
HHP 224 Introduction to Massage Therapy	1
HHP 229 Wellness Counseling	1
Total HHP Required Course Credits	4
REQUIRED GENERAL EDUCATION COURSES	CREDITS
BIO 106 Applied Anatomy & Physiology	4
ENG 115 Technical English & Communication	3
Total Required General Education Course Credits	7
Total Credits Required for Certificate	34.5

Reflexology - Certificate

Code: F_CER_HHR
Campus: Larimer

REQUIRED COURSES	CREDITS
BIO 106 Basic Anatomy & Physiology	4
HHP 164 Introduction to Hand Reflexology	1
HHP 166 Introduction to Reflexology	1
HHP 169 Introduction to Healing Hands & Feet	1
HHP 260 Advanced Reflexology	1
HHP 263 Creating a Holistic Business	2
Total Required Course Credits	10
REQUIRED ELECTIVE COURSES	CREDITS
HHP 288 Practicum	1
Total Credits Required for Certificate	11

Yoga Teacher - Certificate

CCode: F_CER_HHY
Campus: Larimer

REQUIRED COURSES	CREDITS
HHP 250 Yoga Teacher Training	10
HWE 113 First Aid & Adult CPR	0.5
Total Credits Required for Certificate	10.5

Horticulture and Landscape Technologies - Associate of Applied Science Degree

Code: F_AAS_HLT
Campus: Larimer and Westminster

This program prepares students for a wide range of careers in landscape contracting, ornamental horticulture and urban farming. To earn the Associate of Applied Science degree in Horticulture and Landscape Technologies, the student completes the HLT AAS Core and a certificate in:

- Floral Design
- Horticulture
- Irrigation Contracting and Management
- Landscape Construction
- Landscape Design

- Landscape Maintenance
- Nursery Greenhouse and Garden Center Management
- Turfgrass Management
- Urban Agriculture Management

To graduate from this program the student must complete all degree coursework with a "C" or better.

Assessment testing is required of all students. Students who place into ENG 090 (or above), MAT 090 (or above), and REA 090 (or above) may begin this program of study. Students scoring below these levels should consult with a faculty member before registering for courses in this program of study.

Students may complete some courses, enter the workforce, and then return at any time to complete the degree.

HLT ASSOCIATE OF APPLIED SCIENCE CORE	CREDITS
Arts and Humanities:	3
SPA 101 Conversational Spanish I	
Communications:	3
ENG 121 English Composition I, ENG 131 Technical Writing I, COM 115 Public Speaking, or COM 125 Interpersonal Communication	
Mathematics: MAT 107 Career Mathematics or higher	3
Natural & Physical Sciences:	4
BIO 105 Science of Biology (4 cr) or higher or CHE 101 Introduction to Chemistry I with Lab (5 cr) or higher - 5 cr	
Social & Behavioral Sciences:	3
ECO 201 Principles of Macroeconomics or ECO 202 Principles of Microeconomics	

Business Management:	3
HLT 245 Green Industry Business Operations or MAN 216 Small Business Management	

Computer Technology:	6
Completes two of the following course (6 credits).	

NOTE: If a class in this cluster appears in the requirements for your certificate, then you must complete 6 additional credits of other coursework from this list.

- CAD 101 Computer-Aided Drafting I (3 credits)
 - CAD 102 Computer-Aided Drafting II (3 credits)
 - CAD 115 Sketchup (3 credits)
 - CAD 202 Computer-Aided Drafting/3D (3 credits)
 - CIS 118 Introduction to PC Applications (3 credits)
 - CIS 145 Complete PC Database: Access (3credits)
 - CWB 110 Complete Web Authoring (3 credits)
 - GIS 101 Introduction to Geographic Information Systems (3 credits)
 - GIS 110 Introduction to Cartography (3 credits)
 - MGD 111 Adobe Photoshop (3 credits)
- or
- MGD 112 Adobe Illustrator (3 credits)

General Horticulture:	6
------------------------------	---

- Students earning a Floral Design certificate or a Landscape Design certificate must complete HLT 240 Introductory Soil Science (4 credits) and one course with an HLT or FLD prefix which is not a requirement in the student's certificate program.
- All other students must complete 6 additional credits of coursework with an HLT or FLD prefix. Students are encouraged to consult with an HLT/FLD program director for assistance with selecting the courses appropriate for a career path.

Certificate Credits	30
Complete a Horticulture and Landscape Technologies Certificate.	

Total Required Credits for A.A.S. Degree	61
---	-----------

Horticulture and Landscape Technologies - Certificates

Certificates provide job entry skills in horticulture or allow individuals already working in horticulture to upgrade or expand their skill sets.

Students contemplating the associate of applied science degree are encouraged to begin their program of study by selecting a certificate program that interests them. This allows those individuals to enter the workforce before completing the AAS degree. Certificates credits are then applied as a block of classes that work towards completion of the AAS degree.

Floral Design Certificate

Code: F_CER_HLFD Campus: Larimer

This certificate prepares students to work in or own a flower

shop or floral service.

REQUIRED COURSES	CREDITS
FLD 100 Introductory Floral Design	3
FLD 200 Advanced Floral Design	3
FLD 289 Floral Design Capstone	4
HLT 101 Introduction to Horticulture	4
HLT 105 Greenhouse Management and Crops	4
HLT 223 Annuals, Bulbs, and Grasses	2
HLT 224 Herbaceous Perennials	4
HLT 226 Interior Plants	2
HLT 280 Internship or HLT 287 Cooperative Education	4
Total Required Credits for Certificate	30

Horticulture Certificate

Code: F_CER_HLTH Campus: Larimer and Westminster

This certificate allows students with unique career goals to design their own degree with faculty guidance.

REQUIRED COURSES	CREDITS
HLT 101 Introduction to Horticulture	4
HLT 120 Principles of Xeriscape	2
HLT 240 Introductory Soil Science	4
HLT 260 Plant Propagation	4
HLT 280 Internship or HLT 287 Cooperative Education	3
HLT elective courses approved by an HLT Program Director	13
Total Required Credits for Certificate	30

Irrigation Contracting and Management Certificate

Code: F_CER_HLT2 Campus: Larimer and Westminster

This certificate prepares students to work for, or own, an irrigation contracting company. Water management is a critical and growing part of the horticulture industry with great job prospects for interested students.

REQUIRED COURSES	CREDITS
HLT 101 Introduction to Horticulture	4
HLT 120 Principles of Xeriscape	2
HLT 150 Introduction to Landscape Irrigation	2
HLT 151 Irrigation Auditing	3
HLT 235 Principles of Grading and Drainage	3
HLT 237 Landscape Construction Bidding and Estimating	2
HLT 240 Introductory Soil Science	4
HLT 247 Irrigation Installation	4
HLT 250 Irrigation Design	3
HLT 280 Internship or HLT 287 Cooperative Education	3
Total Required Credits for Certificate	30

Landscape CAD Technician Certificate

Code: F_CER_CADL Campus: Larimer and Westminster

This program is operated by FRCC's Computer-Aided Drafting and Design program and includes several HLT courses. For

details see the Computer-Aided Drafting and Design degree listings in this catalog or contact the CAD program director at your campus.

Landscape Contracting Technician Certificate

Code: F_CER_HLLC Campus: Larimer and Westminster

This certificate prepares students to work in landscape construction or to start their own landscape construction company.

REQUIRED COURSES	CREDITS
HLT 101 Introduction to Horticulture	4
HLT 150 Introduction to Landscape Irrigation	2
HLT 235 Principles of Grading and Drainage	3
HLT 236 Landscape Construction	4
HLT 240 Introductory Soil Science	4
HLT 247 Landscape Irrigation Installation	4
HLT 280 Internship or HLT 287 Cooperative Education	4
Complete 5 credits from the following list:	5
HLT 120 Principles of Xeriscape (2 credits)	
HLT 221 Woody Landscape Plants I (3 credits)	
HLT 222 Woody Landscape Plants II (3 credits)	
HLT 223 Annuals, Bulbs, and Grasses (2 credits)	
HLT 224 Herbaceous Perennials (4 credits)	
Total Required Credits for Certificate	30

Landscape Design Certificate

See also *Landscape CAD Technician*.

Code: F_CER_HLTD Campus: Larimer and Westminster

This certificate prepares students to work as landscape designers for landscape design firms or to start their own garden design business. The focus of the program is on residential and small scale design.

REQUIRED COURSES	CREDITS
HLT 120 Principles of Xeriscape	2
HLT 130 Landscape Graphics Studio	3
HLT 140 Landscape Design and Planning	4
HLT 236 Landscape Construction	4
HLT 237 Landscape Construction Bidding and Estimating	2
CAD 101 Computer-Aided Drafting I	3
HLT 280 Internship or HLT 287 Cooperative Education	3
Complete 9 credits from the following list:	9
HLT 126 Planting Design (2 credits)	
HLT 221 Woody Landscape Plants I (3 credits)	
HLT 222 Woody Landscape Plants II (3 credits)	
HLT 223 Annuals, Bulbs, and Grasses (2 credits)	
HLT 224 Herbaceous Perennials (4 credits) or	
HLT 235 Principles of Grading and Drainage (3 credits)	
Total Required Credits for Certificate	30

Landscape Maintenance Technician Certificate

CODE: F_CER_HLT Campus: Larimer and Westminster

This program prepares students to work for landscape maintenance companies including tree care and plant health care companies.

REQUIRED COURSES	CREDITS
HLT 101 Introduction to Horticulture	4
HLT 120 Principles of Xeriscape	2
HLT 150 Introduction to Irrigation	2
HLT 151 Irrigation Auditing	3
HLT 202 Landscape Plant Health Care	3
HLT 208 Commercial Pesticide License Training	3
HLT 210 Landscape Management	3
HLT 240 Introductory Soil Science	4
HLT 264 Arboriculture	3
HLT 280 Internship or HLT 287 Cooperative Education	3
Total Required Credits for Certificate	30

Nursery, Greenhouse, and Garden Center Management Certificate

Code: F_CER_HLNG Campus: Larimer and Westminster

This program prepares students to work in, or own, a retail garden center or a wholesale or retail nursery or greenhouse.

REQUIRED COURSES	CREDITS
HLT 101 Introduction to Horticulture	4
HLT 105 Greenhouse Management and Crops	4
HLT 202 Landscape Plant Health Care	3
HLT 215 Nursery Management or	2
HLT 216 Garden Center Management	
HLT 240 Introductory Soil Science	4
HLT 260 Plant Propagation	4
HLT 280 Internship or HLT 287 Cooperative Education	4
Complete 5 credits from the following list:	5
HLT 221 Woody Landscape Plants I (3 credits)	
HLT 222 Woody Landscape Plants II (3 credits)	
HLT 223 Annuals, Bulbs, and Grasses (2 credits)	
HLT 224 Herbaceous Perennials (4 credits) or	
HLT 226 Interior Plants (2 credits)	
Total Required Credits for Certificate	30

Turfgrass Management Certificate

Code: F_CER_HLTM Campus: Larimer and Westminster

This program prepares students to work in commercial or residential lawn care or in the specialized fields of golf course turf management or sports turf management.

REQUIRED COURSES	CREDITS
HLT 101 Introduction to Horticulture	4
HLT 151 Irrigation Auditing	3
HLT 202 Landscape Plant Health Care	3
HLT 208 Commercial Pesticide License Training or HLT 235 Principles of Grading and Drainage	3

HLT 210 Landscape Management	3
HLT 240 Introductory Soil Science	4
HLT 242 Turfgrass Management	4
HLT 246 Golf and Sports Turf Management	2
HLT 280 Internship or HLT 287 Cooperative Education	4
Total Required Credits for Certificate	30

Urban Agriculture Management Certificate

Code: F_CER_HORT Campus: Larimer and Westminster

This program prepares students to manage or work in an urban agriculture operation (the production of high value fruit and vegetable crops in an urban setting).

REQUIRED COURSES	CREDITS
HLT 101 Introduction to Horticulture	4
HLT 105 Greenhouse Management and Crops	4
HLT 120 Principles of Xeriscape	2
HLT 150 Introduction to Landscape Irrigation	2
HLT 200 Urban Farm Management	4
HLT 202 Landscape Plant Health Care	3
HLT 208 Commercial Pesticide License Training	3
HLT 240 Introductory Soil Science	4
HLT 280 Internship or HLT 287 Cooperative Education	4
Total Required Credits for Certificate	30

Hospitality and Culinary Arts Management - Associate of Applied Science Degree

Code: F_AAS_HOSF
Campus: Larimer

This program offers a range of courses that provide training in the various aspects of the hospitality industry. The program is designed to prepare students with the necessary skills and knowledge for careers that include entry level management positions in the lodging, catering, tourism, institutional services, and restaurant fields. Students have the option to participate in four culinary laboratory courses, as well as one practicum or internship. During these courses, students receive applied experiences in both the food service and operations of the hospitality industry. National Restaurant Association certification is available for a number of the courses offered in the program. Additionally at the completion of the course ServSafe® certification can be obtained. Students take a nationally recognized test from the Education Foundation of the National Restaurant Association. If passed with a score of 75% or more, students receive a Certificate of Completion from the Education Foundation. Students must earn a "C" or above in all required courses applied to the degree program. Assessment testing is required for all students.

Students who place into ENG 090 (or above), MAT 090 (or above), and REA 090 (or above) may begin this program of study. Students scoring below this level should consult with a faculty member before registering for courses in this program of study.

Students must consult with HOS program director before registering for HOS 280 and HOS 288.

REQUIRED COURSES	CREDITS
CUA 101 Food Safety and Sanitation	2
HOS 110 Introduction to Hospitality	3
HOS 120 Service Management	3
HOS 121 Food Preparation	4
HOS 250 Food, Beverage, & Labor Cost Control	3
HOS 280 Internship	2
HWE 100 Human Nutrition	3
Total Required Credits	20
REQUIRED BUSINESS SUPPORT COURSES	
ACC 101 Fundamentals of Accounting	3
BUS 115 Introduction to Business	3
CIS 118 Introduction to PC Applications	3
Total Required Business Support Credits	9
REQUIRED GENERAL EDUCATION COURSES	
ENG 121 English Composition I	3
MAT 107 Career Mathematics (or above)	3
Arts and Humanities or Social Science Elective*	3
General Studies Elective*	3
Science Elective*	3
Total Required General Education Credits	15
<i>(see below*)</i>	
TOTAL REQUIRED CREDITS FOR AREA OF CONCENTRATION	
<i>(SEE AREAS OF CONCENTRATION BELOW)</i>	
Advanced Culinary Arts Concentration	17
Hotel Management Concentration	19
Restaurant Management Concentration	20
Special Events Planning Concentration	19
Total Required Credits for Area of Concentration	17-20
Total Required Credits for AAS Degree	61-64

Note: * Electives must be selected from the Approved General Education Electives List for the AAS Degree.

Advanced Culinary Arts Concentration

Code: F_AAS_HOSF, HFM1
Campus: Larimer

REQUIRED COURSES	CREDITS
HOS 112 Baking/Pastry	4
HOS 148 Introduction to Food & Beverage	3
HOS 241 Pantry and Deli Production	4
HOS 252 Advanced Food Preparation	4
HOS 288 Practicum	2
Total Required Credits for Concentration	17

Hotel Management Concentration

Code: F_AAS_HOSF, HFM2
Campus: Larimer

REQUIRED COURSES	CREDITS
ACC 121 Accounting Principles I	4
HOS 131 Planning for Special Events	3
HOS 242 Hotel Sales and Marketing	3
HOS 251 Hotel Operations	3
HOS 255 Hospitality HR Management	3

MAN 226 Principles of Management	3
Total Required Credits for Concentration	19

Restaurant Management Concentration

Code: F_AAS_HOSF, HFM3
Campus: Larimer

REQUIRED COURSES	CREDITS
ACC 121 Accounting Principles I	4
HOS 148 Introduction to Food and Beverage	3
HOS 240 Purchasing and Menu Planning	3
HOS 252 Advanced Food Preparation	4
HOS 255 Hospitality HR Management	3
MAN 226 Principles of Management	3
Total Required Credits for Concentration	20

Special Events Planning Concentration

Code: F_AAS_HOSF, HFM4
Campus: Larimer

REQUIRED COURSES	CREDITS
ACC 121 Accounting Principles I	4
HOS 131 Planning for Special Events	3
HOS 141 Convention Management	3
HOS 148 Introduction to Food and Beverage	3
HOS 240 Purchasing and Menu Planning	3
HOS 255 Hospitality HR Management	3
Total Required Credits for Concentration	19

Hospitality and Culinary Arts Management - Certificates

Culinary Arts Certificate

Code: F_CER_HOSC
Campus: Larimer

REQUIRED COURSES	CREDITS
CUA 101 Food Safety and Sanitation	2
HOS 112 Baking/Pastry	4
HOS 121 Food Preparation	4
HOS 241 Pantry and Deli Production	4
HOS 252 Advanced Food Preparation	4
HWE 100 Human Nutrition	3
MAT 107 Career Mathematics (or above)	3
Total Required Credits for Certificate	24

Events Planning Coordinator Certificate

Code: F_CER_HOSE
Campus: Larimer

REQUIRED COURSES	CREDITS
ACC 101 Fundamentals of Accounting	3
CIS 118 Introduction to PC Applications	3
HOS 110 Introduction to Hospitality	3
HOS 131 Planning for Special Events	3
HOS 141 Convention Management	3
HOS 148 Introduction to Food and Beverage	3
HOS 240 Purchasing and Menu Planning	3

HOS 246 Marketing Hospitality Services or MAR 216 Principles of Marketing	3
Total Required Credits for Certificate	24

Food & Beverage Management Certificate

Code: F_CER_HOSM
Campus: Larimer

REQUIRED COURSES	CREDITS
ACC 101 Fundamentals of Accounting	3
CUA 101 Food Safety and Sanitation	2
CUA 120 Wines and Spirits	2
HOS 110 Introduction to Hospitality	3
HOS 121 Food Preparation	4
HOS 148 Introduction to Food and Beverage	3
HOS 240 Purchasing and Menu Planning	3
HOS 250 Food, Beverage and Labor Cost Control	3
HWE 100 Human Nutrition	3
Total Required Credits for Certificate	26

Hotel Operations Certificate

Code: F_CER_HOC
Campus: Larimer

REQUIRED COURSES	CREDITS
ACC 101 Fundamentals of Accounting	3
CIS 118 Introduction to PC Applications	3
HOS 110 Introduction to Hospitality	3
HOS 131 Planning for Special Events	3
HOS 141 Convention Management	3
HOS 242 Hotel Sales and Marketing	3
HOS 246 Marketing Hospitality Services or MAR 216 Principles of Marketing	3
HOS 251 Hotel Operations	3
Total Required Credits for Certificate	24

Interior Design - Associate of Applied Science in Interior Design

Code: F_AAS_IND
Campus: Larimer & Westminster

This program provides the student with an in-depth study of architecture, CAD, and interior design skills necessary for a career as an Interior Designer and/or Kitchen and Bath Designer, through the exploration of design concepts. Students enrolled in the program learn to develop creative abilities through the study of visual elements and principles of design. Students will learn to prepare design graphics through sketching, manual drafting, and computer-generated presentation drawings.

***Successful completion of the AAS degree in Interior Design at FRCC facilitates the educational requirements to become an eligible candidate to sit for the NCIDQ (National Council for Interior Design Qualification) examination to become a professional interior designer.

***Successful completion of the Kitchen and Bath Certificate, accredited by the NKBA (National Kitchen and Bath Association) facilitates the eligibility for the student to become AKBD (Associate Kitchen and Bath Designer).

For more information on these educational routes, please contact Nowell Vincent at 970.204.8170.

Assessment testing is required for all students. Students who are reading at the college level and place into ENG 090 (or above), MAT 060 (or above), and REA 090 (or above) may begin this program of study. All courses applied to the certificates must be completed with a grade of "C" or higher.

***Students are recommended to meet with an advisor prior to registration. The Larimer Campus advisor for Interior Design is Nowell Vincent, nowell.vincent@frontrange.edu (970-204-8170). Westminster Campus students should contact Lisa Compton, lisa.compton@frontrange.edu. Students who do not meet with an advisor prior to registration should take the following courses the first semester: AEC 101, IND 105, IND 107 and IND 113.

REQUIRED COURSES	CREDITS
AEC 101 Basic Architectural Drafting	4
AEC 102 Residential Construction Drawing	4
AEC 121 Construction Materials Systems	3
CAD 105 Auto CAD for Interiors	4
CAD 115 Sketchup OR CAD 219 3D/Max	3
CAD 224 Revit Architecture	3
IND 105 Introduction to Interior Design	3
IND 107 History of Interior Design	3
IND 113 Perspective & Rendering Techniques	3
IND 114 Space Planning	3
IND 120 Interior Design II - Space Planning and Human Factors	3
IND 200 Kitchen and Bath Design I	4
IND 220 Interior Design III - Materials, Details, Codes and Specs	3
IND 225 Lighting Design	3
IND 231 Sustainable Design	3
IND 213 Portfolio Presentations	3
Total Required Credits	52

REQUIRED GENERAL EDUCATION COURSES	CREDITS
Arts and Humanities Elective from the AAS General Education Electives list	3
ENG 121 English Composition I or ENG 131 Technical Writing I	3
MAT 107 Career Mathematics	3
Social Science Elective	3
Natural & Physical Sciences Elective from the AAS General Education Electives list	3
Total General Education Credits.	15
Total Required Credits for AAS Degree	67

Other Suggested Courses:

ART 138 Photography I	3
AEC 123 Commercial Construction Drawings	4
or CAD 202 Computer-Aided Drafting/3D	3
MGD 111 Adobe Photoshop I	3

Interior Design - Certificates

Kitchen and Bath Design Certificate

Code: F_CER_INDE
Campus: Larimer and Westminster

REQUIRED COURSES	CREDITS
AEC 101 Basic Architectural Drafting	4
AEC 121 Construction Materials Systems	3
CAD 105 Auto CAD for Interiors	4
IND 105 Introduction to Interior Design	3
IND 113 Perspective & Rendering Techniques	3
IND 114 Space Planning	3
IND 200 Kitchen and Bath Design I	4
IND 205 Professional Practice	2
IND 261 Advanced Kitchen and Bath Design	4
IND 280 Internship	4
Total Required Credits	34
Total Credits For Certificate	34
Other Suggested Courses:	
AEC 123 Commercial Construction Drawings	4
CAD 202 Computer-Aided Drafting/3D	3
CAD 224 Revit Architecture	3
MGD 111 Adobe Photoshop I	3

Interpreter Preparation - Associate of Applied Science Degree

Code: F_AAS_IPP Campus: Westminster

This program prepares students for entry-level employment as sign language interpreters. Sign language interpretation involves bridging the communication gap between deaf and hearing consumers effectively, accurately, and impartially.

Students must apply for this program through the Interpreter Preparation Program. In order to be accepted into the program, students must demonstrate proficiency in ASL and English by:

1. Receiving a grade of "B" or above for both ASL 121 and ASL 122, or by passing the ASL 121 and ASL 122 proficiency tests at 80%, and
2. Receiving a grade of "B" or above for ENG 121 or ENG 122.

In addition, program requirements include demonstrated mastery of program skills. Therefore, students must receive a "B" or above in all ASL and IPP courses and at least a "C" in all other general education coursework.

Students who have received a grade of "C" in any of these ASL or IPP courses may repeat the courses to earn the grade of "B" or above, but may only repeat these courses once. Students who are unable to achieve a "B" by the second attempt in a class will be asked to withdraw from the program.

Only one re-admission to the program may be permitted after twice receiving a grade of "C" or lower in any ASL or IPP course.

Students who have discontinued the IPP program for two or more years may be required to re-take some courses that have been successfully completed due to curriculum changes.

By attending classes on a full-time basis, students may complete the program in two years. Educational standards for

national certification requires a BA degree. FRCC has partnered with Regis University for full transfer of the AAS degree for a Bachelor of Applied Science (BAS) with a major of either Educational Interpreting or Community Interpreting. Contact the Interpreter Preparation Program for further information.

Assessment testing is required for all students. Students who place into ENG 090 (or above), MAT 090 (or above), and REA 090 (or above) may begin working on the prerequisites defined in items 1 and 2 above.

REQUIRED COURSES	CREDITS
ASL 123 American Sign Language III	5
ASL 125 Fingerspelling	3
ASL 221 American Sign Language IV	3
ASL 222 American Sign Language V	3
ASL 244 ASL Linguistics	3
IPP 115 Introduction to Language and Communication	3
IPP 121 Aspects of Interpreting I	3
IPP 122 Aspects of Interpreting II	3
IPP 125 Oral Transliterating	2
IPP 135 Introduction to Interpreting	3
IPP 145 Deaf People in Society	2
IPP 147 Survey of Deaf Culture	3
IPP 205 Educational Interpreting	4
IPP 225 English to ASL Interpreting	3
IPP 227 ASL to English Interpreting	3
IPP 229 Transliterating	3
IPP 235 Advanced Interpreting	4
IPP 278 Interpreter Seminar	2
IPP 282 Internship	6
Total Required Credits	61
REQUIRED GENERAL EDUCATION COURSES	
ANT 101 Cultural Anthropology	3
COM 115 Public Speaking	3
ENG 121 or ENG 122 English Composition I or II (grade of "B" or above is required)	3
MAT 120 or MAT 121, 122, 125, 166, 201, 202, 203, 204, 255, 265	3-4
Natural & Physical Sciences or Humanities Elective*	3
Total Required General Education Credits	15
Total Required Credits for AAS Degree	76

Note: *Electives must be selected from the Approved General Education Electives List for the AAS degree. ASL 121 and ASL 122 do not qualify as a Natural & Physical Sciences or Humanities elective for the IPP AAS degree.

Management

See Business Section

Marketing

See Business Section

Medical Office Technology - Associate of Applied Science Degree

Code: F_AAS_MOT2 Campus: Boulder County

This program is designed to prepare individuals for a career in the clinical and administrative functions of the health care system. All students become familiar with the law and ethics of the health care system and medical terminology. Each area of concentration includes an internship at a health care facility.

This program offers an AAS degree with three areas of concentration: Medical Assistant, Medical Administrative Assistant, or Billing Specialist. While high school graduation or GED are not required for enrollment in the MOT Degree program, students who take the National Certification exams must show evidence of high school graduation or GED in order to take National Certification exams.

All Medical Office Technology students:

- Assessment testing is required of all MOT students. Students who are reading at the college level and obtain the following Accuplacer scores should have the basic skills necessary for success in the program course work: Reading: RC – 80 or greater, English – SS95 or greater, Mathematics – EA45 or greater. Students who place into ENG 121 (or above) and MAT 107 (or above) may begin taking this program of study. A grade of "C" or above must be earned for each course required for all MOT degree and certificate programs.
- Complete online background check at American DataBank as directed by program director. See www.CCCS.edu/nursing for a list of criminal offenses appearing on a criminal background check that will disqualify an applicant for admission to the Medical Office Technology program.
- Ability to sufficiently speak and understand English and to comprehend verbal communication of English speaking clients.
- A grade of "C" or above must be earned for each course required for the degree or certificate.
- While high school graduation or GED are not required for enrollment in the MOT Certificate programs, students who take the National Certification exams must show evidence of high school graduation or GED in order to take National Certification exams.

Additional requirements for Medical Assisting and Clinical Office Assisting students:

- Complete a health summary with documented immunization records. The health summary needs to be completed during the final semester. The health summary is provided by the program director. Please contact Kari Williams at 303-678-3833.
- Current CPR/First Aid course; complete the American Heart Health Care Provider course and receive a 2-year recommended renewal date. The recommended renewal date must not expire prior to completion of the internship semester.

Medical Office Technology - Areas of Concentration

Billing Specialist

Code: F_AAS_MOT2, MOB Campus: Boulder County

This area of concentration prepares individuals to work in an administrative role as a medical insurance billing specialist. Skills are developed in medical account management and in health care coding and billing for reimbursement.

REQUIRED COURSES	CREDITS
ACC 101 Fundamentals of Accounting (or ACC 121 Accounting Principles)	3
CIS 118 Intro to PC Applications	3
HPR 106 Law and Ethics for Health Professions	2
HPR 137 Human Diseases	4
HPR 208 Advanced Medical Terminology OR HPR 178 for 2 credits OR HPR 178 for 1 credit and HPR 285 Independent Case Studies for 1 credit	2

MOT 120 Medical Office Financial Management	3
MOT 130 Insurance, Billing and Coding	3
MOT 184 Billing Specialist Internship or MOT 184 for 3 credits and 1 credit from MOT 180-183	4
Total Required Credits	24

REQUIRED GENERAL EDUCATION COURSES	CREDITS
BIO 106 Basic Anatomy and Physiology <i>(or BIO 201 Human Anatomy and Physiology I - 4 credits and BIO 202 Human Anatomy and Physiology II - 4 credits)</i>	4
ENG 121 English Composition I	3
MAT 107 Career Mathematics <i>(or higher MAT course)</i>	3
PSY 101 General Psychology I <i>(or PSY 235 Human Growth and Development)</i>	3
Arts & Humanities Elective (Spanish recommended)*	3
Total Required General Education Credits	16

Electives*

20 additional credits of electives must be selected from the Approved General Education Electives List for an A.A.S. Degree or from the following additional list: ACC 121 Accounting Principles I (4 credit hours), ACC 122 Accounting Principles II (4 credit hours), BUS 115 Introduction to Business (3 credit hours), BUS 216 Legal Environment of Business (3 credit hours), BUS 217 Business Communications and Report Writing (3 credit hours), BUS 226 Business Statistics (3 credit hours) or CIS 115 Intro to Computer Information Systems.

Total Required Credits for AAS Degree 60

Note: * Electives must be selected from the Approved Electives Lists for the AAS degree or from the list of additional courses.

Medical Administrative Assisting

Code: F_AAS_MOT2, MOAT Campus: Boulder County

This area of concentration is designed to prepare individuals to work in an administrative/secretarial role in a health care facility. Skills are developed in computer applications, written communication, medical office procedures, financial management, insurance billing, *International Classification of Diseases - 9th Edition (ICD-9)*, and *Physicians Current Procedural*

Terminology (CPT) coding, and transcribing medical reports. In addition, students learn basic human anatomy, physiology, and disease conditions.

REQUIRED COURSES	CREDITS
CIS 118 Intro to PC Applications	3
HPR 106 Law and Ethics for Health Professions	2
HPR 208 Advanced Medical Terminology OR HPR 178 for 2 credits OR HPR 178 for 1 credit and HPR 285 Independent Case Studies for 1 credit	2
HPR 137 Human Diseases	4
MOT 110 Medical Office Administration	4
MOT 120 Medical Office Financial Management	3
MOT 130 Insurance, Billing and Coding	3
MOT 132 Medical Transcription I	4
MOT 136 Introduction to Clinical Skills	2
MOT 181 Administrative Internship or MOT 181 for 2 credits and 1 credit from MOT 180-184	3
Total Required Credits	30
REQUIRED GENERAL EDUCATION COURSES	CREDITS
BIO 106 Basic Anatomy and Physiology <i>(or BIO 201 Human Anatomy and Physiology I - 4 credits and BIO 202 Human Anatomy and Physiology II - 4 credits)</i>	4
ENG 121 English Composition I	3
MAT 107 Career Mathematics <i>(or higher MAT course)</i>	3
PSY 101 General Psychology I <i>(or PSY 235 Human Growth and Development - 3 credits)</i>	3
Arts & Humanities Elective (Spanish recommended)*	3
Total Required General Education Credits	16
Electives*	15
15 additional credits of electives must be selected from the Approved General Education Electives List for an A.A.S. Degree or from the following additional list: ACC 121 Accounting Principles I (4 credit hours), ACC 122 Accounting Principles II (4 credit hours), BUS 115 Introduction to Business (3 credit hours), BUS 216 Legal Environment of Business (3 credit hours), BUS 217 Business Communications and Report Writing (3 credit hours), BUS 226 Business Statistics (3 credit hours), or CIS 115 Intro to Computer Information Systems.	
Total Required Credits for AAS Degree	61

Note: * Electives must be selected from the Approved Electives Lists for the AAS degree or from the list of additional courses.

Medical Assisting

Code: F_AAS_MOT2, MOTM Campus: Boulder County

This area of concentration is designed to prepare individuals to work in ambulatory health care facilities in both the administrative and clinical areas. Administrative skills are developed in the areas of medical office procedures, written communications, financial management, insurance billing, *International Classification of Diseases - 9th Edition (ICD-9)*, and *Physicians Current Procedural Terminology (CPT) coding*. Clinical skills include assisting with physical examinations, diagnostic tests, and treatment procedures.

REQUIRED COURSES	CREDITS
CIS 118 Intro to PC Applications	3

HPR 106 Law and Ethics for Health Professions	2
HPR 137 Human Diseases	4
HPR 208 Advanced Medical Terminology OR HPR 178 for 2 credits OR HPR 178 for 1 credit and HPR 285 Independent Case Studies for 1 credit	2
MOT 110 Medical Office Administration	4
MOT 120 Medical Office Financial Management	3
MOT 130 Insurance, Billing and Coding	3
MOT 136 Introduction to Clinical Skills	2
MOT 138 Medical Assisting Laboratory Skills	4
MOT 140 Medical Assisting Clinical Skills	4
MOT 150 Pharmacology for Medical Assistants	3
MOT 183 Medical Assistant Internship or MOT 183 for 4 credits and 1 credit from MOT 180-184	5
Total Required Credits	39
REQUIRED GENERAL EDUCATION COURSES	CREDITS
BIO 106 Basic Anatomy and Physiology <i>(or BIO 201 Human Anatomy and Physiology I - 4 credits and BIO 202 Human Anatomy and Physiology II - 4 credits)</i>	4
ENG 121 English Composition I	3
MAT 107 Career Mathematics <i>(or higher MAT course)</i>	3
PSY 101 General Psychology I	3
Arts & Humanities Elective (Spanish recommended)*	3
Total Required General Education Credits	16
Electives*	6
6 additional credits of electives must be selected from the Approved General Education Electives List for an A.A.S. Degree or from the following additional list: ACC 121 Accounting Principles I (4 credit hours), ACC 122 Accounting Principles II (4 credit hours), BUS 115 Introduction to Business (3 credit hours), BUS 216 Legal Environment of Business (3 credit hours), BUS 217 Business Communications and Report Writing (3 credit hours), BUS 226 Business Statistics (3 credit hours) or CIS 115 Intro to Computer Information Systems.	
Total Required Credits for AAS Degree	61

Note: * Electives must be selected from the Approved Electives Lists for the AAS degree or from the list of additional courses.

Medical Office Technology - Certificates

Revisions of the following degree and/or certificates are pending state and federal approval. They will be included in a catalog addendum online when approval is received. Please consult an advisor for more information.

All Medical Office Technology students:

- Assessment testing is required of all MOT students. Students who are reading at the college level and obtain the following Accuplacer scores should have the basic skills necessary for success in the program course work. Reading: RC – 80 or greater, English – SS95 or greater, Mathematics – EA45 or greater. Students who place into ENG 121 (or above) and MAT 107 (or above) may begin taking this program of study. A grade of "C" or above must be earned for each course required for all MOT degree and certificate programs.
- Complete online background check at American DataBank as directed by program director. See www.CCCS.edu/nursing for a list of criminal offenses appearing on a criminal background check that will disqualify an applicant for admission to the Medical Office Technology program.
- Ability to sufficiently speak and understand English and to comprehend verbal communication of English speaking clients.
- A grade of "C" or above must be earned for each course required for the degree or certificate.
- While high school graduation or GED are not required for enrollment in the MOT Certificate programs, students who take the National Certification exams must show evidence of high school graduation or GED in order to take National Certification exams.

Additional requirements for Medical Assisting and Clinical Office Assisting students:

- Complete a health summary with documented immunization records. The health summary needs to be completed during the final semester. The health summary is provided by the program director. Please contact Kari Williams at 303-678-3833.
- Current CPR/First Aid course; complete the American Heart Health Care Provider course and receive a 2-year recommended renewal date. The recommended renewal date must not expire prior to completion of the internship semester.

Billing Specialist Certificate

Code: F_CER_MOTL Campus: Boulder County

This certificate prepares individuals to work in an administrative role as a medical insurance billing specialist. Skills are developed in medical account management and in health care coding and billing for reimbursement.

REQUIRED COURSES	CREDITS
ACC 101 Fundamentals of Accounting (or ACC 121 Accounting Principles I)	3
BIO 106 Basic Anatomy and Physiology (or BIO 201 Human Anatomy and Physiology I - 4 credits and BIO 202 Human Anatomy and Physiology II - 4 credits)	4
CIS 118 Introduction to PC Applications	3
ENG 121 English Composition I	3
HPR 106 Law and Ethics for Health Professions	2
HPR 137 Human Diseases	4
HPR 208 Advanced Medical Terminology OR HPR 178 for 2 credits OR HPR 178 for 1 credit and HPR 285 Independent Case Studies for 1 credit	2

MOT 120 Medical Office Financial Management	3
MOT 130 Insurance, Billing and Coding	3
MOT 184 Billing Specialist Internship or MOT 184 for 3 credits and 1 credit from MOT 180-183	4
Total Required Credits for Certificate	31

Clinical Office Assistant Certificate

Code: F_CER_MOTC Campus: Boulder County

This certificate is designed to prepare individuals to work in ambulatory health care facilities as a clinical assistant or aide. Upon completion, students are able to receive and prepare patients for physical examinations, and to assist with physical examinations, diagnostic tests and treatment procedures.

REQUIRED COURSES	CREDITS
BIO 106 Basic Anatomy and Physiology (or BIO 201 Human Anatomy and Physiology I - 4 credits and BIO 202 Human Anatomy and Physiology II - 4 credits)	4
HPR 106 Law and Ethics for Health Professions	2
HPR 137 Human Diseases	4
HPR 208 Advanced Medical Terminology OR HPR 178 for 2 credits OR HPR 178 for 1 credit and HPR 285 Independent Case Studies for 1 credit	2
MOT 136 Introduction to Clinical Skills	2
MOT 138 Medical Assisting Laboratory Skills	4
MOT 140 Medical Assisting Clinical Skills	4
MOT 150 Pharmacology for Medical Assistants	3
MOT 182 Clinical Internship or MOT 182 for 2 credits and 1 credit from MOT 180-184	3
PSY 101 General Psychology I (or PSY 235 Human Growth & Development)	3
Total Required Credits for Certificate	31

Health Care Office Assistant Certificate

Code: F_CER_MOTR Campus: Boulder County

This certificate is designed to prepare individuals to work in a health care facility as a receptionist. Upon successful completion, students are able to register new patients, use proper telephone techniques, schedule appointments, file medical records, process mail, and type and transcribe miscellaneous medical reports. Students use both manual and computerized systems to organize a medical office.

REQUIRED COURSES	CREDITS
CIS 118 Introduction to PC Applications	3
ENG 121 English Composition I	3
HPR 106 Law and Ethics for Health Professions	2
HPR 208 Advanced Medical Terminology OR HPR 178 for 2 credits OR HPR 178 for 1 credit and HPR 285 Independent Case Studies for 1 credit	2
MOT 110 Medical Office Administration	4
MOT 120 Medical Office Financial Management	3
MOT 132 Medical Transcription I	4
MOT 136 Introduction to Clinical Skills	2
MOT 181 Administrative Internship or MOT 181 for 2 credits and 1 credit from MOT 180-184	3
Total Required Credits for Certificate	26

Medical Administrative Assistant Certificate

Code: F_CER_MOTS Campus: Boulder County

This certificate is designed to prepare individuals to work in an administrative/secretarial role in a health care facility. Skills are developed in computer applications, written communication, medical office procedures, financial management, insurance billing, *International Classification of Diseases - 9th Edition (ICD-9)* and *Physicians Current Procedural Terminology (CPT)* coding, and transcribing medical reports. In addition, students learn basic human anatomy, physiology and disease conditions.

REQUIRED COURSES	CREDITS
BIO 106 Basic Anatomy and Physiology (or BIO 201 Human Anatomy and Physiology I - 4 credits and BIO 202 Human Anatomy and Physiology II - 4 credits)	4
CIS 118 Intro to PC Applications	3
ENG 121 English Composition I	3
HPR 106 Law and Ethics for Health Professions	2
HPR 137 Human Diseases	4
HPR 208 Advanced Medical Terminology OR HPR 178 for 2 credits OR HPR 178 for 1 credit and HPR 285 Independent Case Studies for 1 credit	2
MOT 110 Medical Office Administration	4
MOT 120 Medical Office Financial Management	3
MOT 130 Insurance, Billing and Coding	3
MOT 132 Medical Transcription I	4
MOT 136 Introduction to Clinical Skills	2
MOT 181 Administrative Assistant Internship or MOT 181 for 2 credits and 1 credit from MOT 180-184	3
PSY 101 General Psychology I (or PSY 235 Human Growth & Development)	3
Total Required Credits for Certificate	40

Medical Assistant Certificate

Code: F_CER_MED1 Campus: Boulder County

This certificate is designed to prepare individuals to work in ambulatory health care facilities in both the administrative and clinical areas. Administrative skills are developed in the areas of medical office procedures, written communications, financial management, insurance billing, *International Classification of Diseases - 9th Edition (ICD-9)* and *Physicians Current Procedural Terminology (CPT)* coding. Clinical skills include assisting with physical examinations, diagnostic tests and treatment procedures.

The certified Medical Assisting Program, Boulder County Campus, is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org) upon the recommendation of the Curriculum Review Board of the American Association of Medical Assistants Endowment (AAMAE). CAAHEP, 1361 Park Street, Clearwater, FL 33756, (727) 210-2350.

REQUIRED COURSES	CREDITS
BIO 106 Basic Anatomy and Physiology (or BIO 201 Human Anatomy and Physiology I - 4 credits and BIO 202 Human Anatomy and Physiology II - 4 credits)	4
ENG 121 English Composition I	3

HPR 106 Law and Ethics for Health Professions	2
HPR 137 Human Diseases	4
HPR 208 Advanced Medical Terminology OR HPR 178 for 2 credits OR HPR 178 for 1 credit and HPR 285 Independent Case Studies for 1 credit	2
MOT 110 Medical Office Administration	4
MOT 120 Medical Office Financial Management	3
MOT 130 Insurance, Billing and Coding	3
MOT 136 Introduction to Clinical Skills	2
MOT 138 Medical Assisting Laboratory Skills	4
MOT 140 Medical Assisting Clinical Skills	4
MOT 150 Pharmacology for Medical Assistants	3
MOT 183 Medical Assistant Internship or MOT 183 for 4 credits and 1 credit from MOT 180-184	5
PSY 101 General Psychology I	3
Total Required Credits for Certificate	46

Medical Transcriptionist Certificate

Code: F_CER_MOTT Campus: Boulder County

This certificate develops proficiency in the specialized field of medical transcription and is designed to prepare students for entry-level employment in medical transcription.

REQUIRED COURSES	CREDITS
BIO 106 Basic Anatomy and Physiology (or BIO 201 Human Anatomy and Physiology I - 4 credits and BIO 202 Human Anatomy and Physiology II - 4 credits)	4
CIS 135 Complete Word Processing	3
ENG 121 English Composition I	3
HPR 106 Law and Ethics for Health Professions	2
HPR 137 Human Diseases	4
HPR 208 Advanced Medical Terminology OR HPR 178 for 2 credits OR HPR 178 for 1 credit and HPR 285 Independent Case Studies for 1 credit	2
MOT 132 Medical Transcription I	4
MOT 142 Medical Transcription II	4
MOT 150 Pharmacology for Medical Assistants	3
MOT 180 Medical Transcription Internship or MOT 180 for 2 credits and 1 credit from MOT 181-184	3
Total Required Credits for Certificate	32

Multimedia Technology - Associate of Applied Science Degree

Assessment testing is required for all students. Students who place into ENG 090 (or above), MAT 090 (or above), and REA 090 (or above) may begin this program of study. Students scoring below this level should consult with a faculty member before registering for courses in this program of study. A grade of "C" or above must be earned for each course required for the degree.

Multimedia Technology - Areas of Concentration

Animation

Code: F_AAS_MMT1,MTA Campus: Boulder County and Westminster

This degree prepares students for entry-level positions dealing with the production of interactive presentations, medical illustration, gaming, web animation and cartooning. Students develop a high level of technical proficiency through the use of multiple software programs for creating, composing, and displaying animation designs for various media. They also develop solid design skills through training in traditional graphic design concepts and the integration of design principles throughout the curriculum.

Core classes focus on helping students learn industry standard software in illustration, photo manipulation, web graphics, animation and 3D modeling, and digital video production. Electives allow students to focus on desired design skills to gain an understanding of the application of web design, digital video production, and specific drawing skills. Students work independently and in collaborative groups in the design and implementation of mixed media presentations and applications.

This degree requires the use of a computer for prolonged periods of time during class and lab, analytical and creative abilities, and basic computer skills to begin the program.

REQUIRED COURSES	CREDITS
MGD 102 Introduction to Multimedia	3
MGD 111 Adobe Photoshop I	3
MGD 112 Adobe Illustrator I	3
MGD 133 Graphic Design I	3
MGD 143 Web Motion Graphic Design I	3
MGD 152 Digital Animatics	3
MGD 153 3D Animation I	3
MGD 165 After Effects I	3
MGD 167 Game Design I	3
MGD 211 Adobe Photoshop II	3
MGD 253 3D Animation II	3
MGD 289 Capstone	3
Total Required Credits	36
REQUIRED ELECTIVE COURSES	CREDITS
<i>Select 3 courses from the following:</i>	
ART 221 Drawing II	3
ART 127 Landscape Drawing I	3
ART 128 Figure Drawing I	3
COM 115 Public Speaking	3
MGD 116 Typography I	3
MGD 121 Painter for Digital Media	3
MGD 134 Drawing for Illustrators	3
MGD 141 Web Design I	3
MGD 164 Digital Video Editing I	3
MGD 212 Adobe Illustrator II	3
MGD 241 Web Design II	3
MGD 243 Web Motion Graphics II	3

MGD 258 Web Design Production	3
MGD 264 Digital Video Editing II	3
or any other MGD class(es)	3-9
Total Elective Credits	9
REQUIRED GENERAL EDUCATION COURSES	CREDITS
ART 121 Drawing I	3
ART 131 Visual Concepts 2-D Design	3
ENG 121 English Composition I or ENG 131 Technical Writing I (or ENG 131 Technical Writing I or higher English)	3
MAT 107 Career Mathematics (or MAT 120 Mathematics for the Liberal Arts – 4 credits or higher math)	3
Natural & Physical Sciences or Social Science Elective*	3
Total Required General Education Credits	15
Total Required Credits for AAS Degree	60

Note: * Electives must be selected from the Approved General Education Electives List for the AAS degree.

Print and Presentation

Code: F_AAS_MMT1,MMP Campus: Boulder County and Westminster

This area of concentration prepares students for entry-level positions in print as digital artists, graphic artists, and graphic designers. Students develop a high level of technical proficiency through the use of multiple software programs for creating, composing, and displaying designs for print and other media presentation.

Core courses focus on assisting students in learning industry standard software in illustration, photo manipulation, 3D modeling, and pre-press skills needed for print. Program electives allow students to focus on specific design and software skills.

Students work independently, as well as in collaborative groups in the design and implementation of mixed media presentations and applications.

This degree requires the extensive use of a computer for prolonged periods of time during class and lab, analytical and creative abilities, and basic computer skills to begin the program.

Assessment testing is required for all students. Students who are reading at the college level and place into ENG 090 (or above), MAT 090 (or above), and REA 090 (or above) may begin this program of study. A grade of "C" or above must be earned for each course required for the degree.

REQUIRED COURSES	CREDITS
MGD 102 Introduction to Multimedia	3
MGD 103 Production Design	3
MGD 111 Adobe Photoshop I	3
MGD 112 Adobe Illustrator I	3
MGD 114 Adobe InDesign	3
MGD 116 Typography I	3
MGD 133 Graphic Design I	3
MGD 202 Point of Purchase Package Design	3
MGD 211 Adobe Photoshop II	3

MGD 212 Adobe Illustrator II	3
MGD 203 Design and Concept	3
MGD 289 Capstone	3
Total Required Credits	36
REQUIRED ELECTIVE COURSES	CREDITS
<i>Select 9 credits from the following:</i>	
ART 111 Art History: Ancient to Medieval	3
ART 112 Art History: Renaissance to Modern	3
ART 139 Digital Photo I (or ART 138 Film Photography I)	3
ART 207 Art History - 1900 to Present	3
ART 245 Digital Photo Studio (or ART 145 Digital Darkroom)	3
COM 115 Public Speaking	3
JOU 221 Newspaper Design I	3
MAR 216 Principles of Marketing	3
MAR 220 Principles of Advertising	3
or any other MGD class(es)	3-9
Total Required Elective Credits	9
REQUIRED GENERAL EDUCATION COURSES	CREDITS
ART 121 Drawing I	3
ART 131 Visual Concepts 2-D Design	3
ENG 121 English Composition I (or ENG 131 Technical Writing I or higher English)	3
MAT 107 Career Mathematics or higher math (or MAT 120 Mathematics for the Liberal Arts - 4 credits)	3
Science or Social Science Elective*	3
Total Required General Education Credits	15
Total Required Credits for AAS Degree	60

Note: * Electives must be selected from the Approved General Education Electives List for the AAS degree.

Video

Code: F_AAS_MMT1, MGDV Campus: Boulder County and Westminster

This area of concentration prepares students for entry-level positions as videographer, video editor, web designers, and motion graphic artists. In addition to developing a high level of technical proficiency through the use of multiple software programs, students also develop traditional video and animation concepts and skills within the curriculum.

Core courses focus on assisting students in learning industry standard software in illustration, photo manipulation, web graphics, animation, sound, special effects, and digital video production. Electives allow students to focus on more specific design and software skills.

Students work independently as well as in collaborative groups in the design and implementation of mixed media presentations and applications.

This degree requires the extensive use of a computer for prolonged periods of time during class and lab, analytical and creative abilities, and basic computer skills to begin the program.

Assessment testing is required for all students. Students who are reading at the college level and place into ENG 090 (or

above), MAT 090 (or above), and REA 090 (or above) may begin this program of study. A grade of "C" or above must be earned for each course required for the degree.

REQUIRED COURSES	CREDITS
MGD 102 Introduction to Multimedia	3
MGD 104 Videography	3
MGD 111 Adobe Photoshop I	3
MGD 116 Typography I	3
MGD 141 Web Design I	3
MGD 163 Sound Design I	3
MGD 164 Digital Video Editing I	3
MGD 165 After Effects I	3
MGD 143 Web Motion Graphic Design I	3
MGD 264 Digital Video Editing II	3
MGD 204 Videography II	3
MGD 289 Capstone	3
Total Required Credits	36

REQUIRED ELECTIVE COURSES	CREDITS
<i>Select 3 courses from the following:</i>	
ART 111 Art History: Ancient to Medieval	3
MAR 216 Principles of Marketing	3
MAR 220 Principles of Advertising	3
MGD 112 Adobe Illustrator I	3
MGD 211 Adobe Photoshop II	3
MGD 212 Adobe Illustrator II	3
or any other MGD class(es)	3-9
Total Required Elective Credits	9

REQUIRED GENERAL EDUCATION COURSES	CREDITS
ART 121 Drawing I	3
ART 131 Visual Concepts 2-D Design	3
ENG 121 English Composition I (or ENG 131 Technical Writing I or higher English)	3
MAT 107 Career Mathematics (or MAT 120 Mathematics for the Liberal Arts - 4 credits or higher math)	3
Science or Social Science Elective*	3
Total Required General Education Credits	15
Total Required Credits for AAS Degree	60

Note: * Electives must be selected from the Approved General Education Electives List for the AAS degree.

Web Media

Code: F_AAS_MMT1, MTW Campus: Boulder County and Westminster

This area of concentration prepares students for entry-level positions as web designers, digital artists, motion graphic artists, and graphic designers. In addition to developing a high level of technical proficiency through the use of multiple software programs, students also develop traditional graphic design concepts and skills within the curriculum.

Core courses focus on assisting students in learning industry standard software in illustration, photo manipulation, web graphics, animation and 3D modeling, and digital video production. Electives allow students to focus on more specific design and software skills.

Students work independently as well as in collaborative

groups in the design and implementation of mixed media presentations and applications.

This degree requires the extensive use of a computer for prolonged periods of time during class and lab, analytical and creative abilities, and basic computer skills to begin the program.

Assessment testing is required for all students. Students who are reading at the college level and place into ENG 090 (or above), MAT 090 (or above), and REA 090 (or above) may begin this program of study. A grade of "C" or above must be earned for each course required for the degree.

REQUIRED COURSES	CREDITS
MGD 102 Introduction to Multimedia	3
MGD 111 Adobe Photoshop I	3
MGD 112 Adobe Illustrator I	3
MGD 133 Graphic Design I	3
MGD 141 Web Design I	3
MGD 143 Web Motion Graphic Design I	3
MGD 164 Digital Video Editing I	3
MGD 211 Adobe Photoshop II	3
MGD 241 Web Design II	3
MGD 243 Web Motion Graphics II	3
MGD 258 Web Design Production (or MGD 289 Capstone)	3
MGD 264 Digital Video Editing II	3
Total Required Credits	36
REQUIRED ELECTIVE COURSES	CREDITS
<i>Select 9 credits from the following:</i>	
ART 112 Art History: Renaissance to Modern	3
COM 115 Public Speaking	3
CSC 240 Java Programming	3
CWB 110 Complete Web Authoring	3
CWB 205 Complete Web Scripting	3
CWB 206 Web Database	3
MAR 216 Principles of Marketing	3
MAR 217 E-Commerce Marketing	3
MAR 220 Principles of Advertising	3
MAR 222 Implementing E-Commerce	3
MGD 116 Typography	3
or any other MGD class(es)	3-9
Total Required Elective Credits	9
REQUIRED GENERAL EDUCATION COURSES	CREDITS
ART 121 Drawing I	3
ART 131 Visual Concepts 2-D Design	3
ENG 121 English Composition I (or ENG 131 Technical Writing I or higher English)	3
MAT 107 Career Mathematics (or MAT 120 Mathematics for the Liberal Arts - 4 credits or higher math)	3
Science or Social Science Elective*	3
Total Required General Education Credits	15
Total Required Credits for AAS Degree	60

Note: * Electives must be selected from the Approved General Education Electives List for the AAS. degree.

Multimedia Technology - Certificates

Students may earn certificates in animation, digital imaging, graphic design, multimedia general, multimedia print/presentation, and multimedia web. While software use and design principles are included in the certificate, entry-level positions may require additional design training.

These certificates require the extensive use of a computer for prolonged periods of time during class and lab, analytical and creative abilities, and basic computer skills to begin the program.

Assessment testing is required for all students. Students who are reading at the college level and place into ENG 090 (or above), MAT 090 (or above), and REA 090 (or above) may begin this program of study. A grade of "C" or above must be earned for each course required for the degree.

Animation Certificate

Code: F_CER_MMA
Campus: Boulder County and Westminster

REQUIRED COURSES	CREDITS
MGD 102 Introduction to Media	3
MGD 111 Adobe Photoshop I	3
MGD 112 Adobe Illustrator I	3
MGD 152 Digital Animatics	3
MGD 153 3D Animation I (or MGD 143 Web Motion Graphic Design I)	3
MGD 165 After Effects I (or MGD 143 Web Motion Graphic Design I)	3
MGD 167 Game Design I	3
MGD 211 Adobe Photoshop II	3
MGD 253 3D Animation II	3
MGD 257 Animation Production (or MGD 289 Capstone)	3
Total Required Credits for Certificate	30

Digital Imaging Certificate

Code: F_CER_MMDI
Campus: Larimer

This certificate is designed for entry-level positions in digital photo labs, newspaper photo departments, and graphic design production.

REQUIRED COURSES	CREDITS
ART 138 Film Photography I (or ART 139 Digital Photography I)	3
ART 139 Digital Photography I (or ART 239 Digital Photography II)	3
ART 140 Color Photography I	3
ART 145 Digital Darkroom (or ART 245 Digital Photo Studio)	3
MGD 111 Adobe Photoshop I	3
MGD 112 Adobe Illustrator I	3
MGD 117 Introduction to Visual Communications (or MGD 102 Introduction to Multimedia)	3
MGD 133 Graphic Design I (or MGD 114 Adobe	3

<i>InDesign</i>)	
MGD 211 Adobe Photoshop II	3
MGD 280 Internship	2
MGD 289 Capstone	1
Total Required Credits for Certificate	30

Graphic Design Technician Certificate

Code: F_CER_GRD1 Campus: Larimer and Boulder County

This certificate is designed for entry-level positions in print production, graphic design, and newspaper production.

REQUIRED COURSES	CREDITS
ART 121 Drawing I	3
ART 131 Visual Concepts 2-D Design	3
ART 138 Film Photography I (or ART 139 Digital Photography I)	3
MGD 111 Adobe Photoshop I	3
MGD 112 Adobe Illustrator I	3
MGD 116 Typography I	3
MGD 133 Graphic Design I (or MGD 114 Adobe InDesign)	3
MGD 211 Adobe Photoshop II	3
MGD 233 Graphic Design II	3
MGD 280 Internship	2
MGD 289 Capstone	1
Total Required Credits for Certificate	30

Multimedia General Certificate

Code: F_CER_MMTG
Campus: Boulder County and Westminster

REQUIRED COURSES	CREDITS
MGD 102 Introduction to Multimedia	3
MGD 103 Production Design	3
MGD 111 Adobe Photoshop I	3
MGD 112 Adobe Illustrator I	3
MGD 114 Adobe InDesign	3
MGD 141 Web Design I	3
MGD 143 Web Motion Graphic Design I (or MGD 153 3D Animation I)	3
MGD 211 Adobe Photoshop II	3
MGD 212 Adobe Illustrator II	3
MGD 256 Graphic Design Production (or MGD 289 Capstone)	3
Total Required Credits for Certificate	30

Multimedia Print/Presentation Certificate

Code: F_CER_MMMP
Campus: Boulder County and Westminster

REQUIRED COURSES	CREDITS
MGD 103 Production Design	3
MGD 111 Adobe Photoshop I	3
MGD 112 Adobe Illustrator I	3
MGD 114 Adobe InDesign	3
MGD 116 Typography I	3
MGD 133 Graphic Design I	3

MGD 211 Adobe Photoshop II	3
MGD 212 Adobe Illustrator II	3
MGD 203 Design and Concept	3
MGD 256 Graphic Design Production (or MGD 289 Capstone)	3
Total Required Credits for Certificate	30

Multimedia Video Certificate

Code: F_CER_VDO
Campus: Westminster and Boulder County

REQUIRED COURSES	CREDITS
MGD 104 Videography	3
MGD 111 Adobe Photoshop I	3
MGD 116 Typography I	3
MGD 143 Motion Graphic Design I	3
MGD 163 Sound Design I	3
MGD 164 Digital Video Editing I	3
MGD 165 After Effects I	3
MGD 204 Videography II	3
MGD 243 Web Motion Graphic Design II	3
MGD 264 Digital Video Editing II	3
Total Required Credits for Certificate	30

Multimedia Web Certificate

Code: F_CER_MMMW
Campus: Boulder County and Westminster

REQUIRED COURSES	CREDITS
MGD 102 Introduction to Multimedia	3
MGD 111 Adobe Photoshop I	3
MGD 112 Adobe Illustrator I	3
MGD 141 Web Design I	3
MGD 143 Web Motion Graphic Design I	3
MGD 164 Digital Video Editing I	3
MGD 211 Adobe Photoshop II	3
MGD 241 Web Design II	3
MGD 243 Web Motion Graphic Design II	3
MGD 258 Web Design Production (or MGD 289 Capstone)	3
Total Required Credits for Certificate	30

Nursing

Colorado Board of Nursing

The Front Range Community College Nursing Programs have Continuing Full Approval from the Colorado Board of Nursing.

National League for Nursing Accrediting Commission, Inc

3343 Peachtree Road NE, Suite 500, Atlanta, GA 30326
www.nlnac.org

Larimer Campus, Westminster Campus, and Boulder County Campus Nursing Programs are accredited by the National League for Nursing Accrediting Commission (NLNAC).

Nursing - Associate of Applied Science Degree

Code: F_AAS_NR1
Campus: Larimer and Westminster

This program prepares students for entry-level professional nursing practice as a registered nurse. The nursing program is a two-year curriculum. Registered nurses function in a variety of roles: provider of care and manager of care in various health care settings including acute care hospitals, long term care settings, and community settings such as clinics, home health and health maintenance organizations. As a member of this discipline of nursing, registered nurses practice within the scope of practice as outlined in the Colorado Nurse Practice Act. Many students pursue a baccalaureate or master's degree after completion of an associate degree in nursing. Graduates of the nursing program are eligible for advanced placement into baccalaureate nursing programs through the Colorado Articulation Model. More advanced positions usually require advanced degrees. Military commissioned status after graduation has special requirements. Contact an advisor for further information.

Upon successful completion of the nursing program, the student is awarded an AAS degree in Nursing. Graduates are eligible to submit an application to complete the NCLEX® exam for licensure as a registered nurse. The Front Range Community College associate of applied science degree is approved by the Colorado Board of Nursing and accredited by the NLNAC.

The program offers an LPN "exit option" course at the completion of the first year. This is for students who would like to complete the requirements to be eligible to apply for the PN NCLEX®. Students completing NUR 169 and the first year of the nursing program may apply for the NCLEX® exam for practical nursing licensure.

Assessment testing is required of all students. Students who are reading at the college level and obtain the following Accuplacer scores should have the basic skills necessary for success in program course work: *Reading*: RC-80 or greater, *English*: SS95 or greater and WR5-8, *Mathematics*: EA 61 or greater or must complete MAT 090, *Science*: department standard.

Application Process for AAS Degree

Please contact a Nursing Department Representative at the campus of your choice for information on nursing program application process prior to submitting a program application. FRCC nursing program application requirements are under examination and will change in the near future.

Currently, the nursing programs at Front Range Community College have a wait list for enrollment. **Due to the large number of waitlisted students as well as an on-going review of the nursing admission process, waitlist applications were stopped as of 6/1/12.** Students may obtain up-to-date information on the admission process at a nursing information session. Westminster sessions are held on the second Wednesday of each month (except no meetings in July or December) at 6:00 pm in room B0353 or contact by e-mail at wcnursing@frontrange.edu. Larimer sessions are held the second Monday of each month at 5:00 pm in room BP126 or contact by e-mail at lccnursing@frontrange.edu.

Minimum Requirements for Nursing Program Application:

Minimum Requirements for Nursing Program Application: For students not currently waitlisted, admission will be governed by a competitive process. Please contact a nursing department representative at the campus of your choice for more information.

1. Completion of all admission pre-requisite course work. If a student is transferring prerequisite courses from another college, the courses must be evaluated by the Office of Admissions and Records at the college the student plans to attend.
 - ENG 121 English Composition I
 - PSY 235 Human Growth and Development
 - BIO 201* Human Anatomy and Physiology I
 - BIO 202* Human Anatomy and Physiology II
 - BIO 204* Microbiology

**Must be completed within seven years prior to entry into the Nursing Program*

Students must receive a grade of "C" or above and a cumulative GPA of 2.75 or higher on prerequisite courses listed above.

Students must have an **overall** cumulative GPA of 2.0 or higher for previous courses completed at FRCC.

Please review the prerequisites for MAT 103, which must be taken in the first semester of the program. Students must have satisfied the prerequisites for MAT 103 before starting the program but should not take the course until starting the nursing program.

2. Completion of an online background check and drug screening at American DataBank. See www.healthcareex.com for a list of criminal offenses appearing on a criminal background check that will disqualify an applicant for admission to a CCCS nursing program.
3. Completion of a health summary with documented immunization records (prior to entrance to the first nursing course).
4. Current CPR Course - Completion of the American Heart Health Care Provider course and receive a two-year recommended renewal date. The recommended renewal date must not expire prior to completion of the semester and must remain current throughout the nursing program.
5. Ability to sufficiently speak and understand English and to comprehend verbal communication of English speaking clients.
6. Students accepted into the nursing program must meet the same health and safety requirements as the participating clinical facilities require of their own staff. Additional screening may be required for some clinical agencies. The expenses of these requirements are additional costs to the student.

Note: Upon successful completion of the nursing program, students receive an associate of applied science degree and are eligible to make application for the NCLEX® exam for licensure as a registered nurse.

To maintain a position in the program after starting nursing courses, students must be continually enrolled and complete all required courses in sequence with a grade of "C" or above.

Only one re-entry to an FRCC nursing program is allowed after a student receives a "D," "F," or "U" grade in a nursing course or withdraws from a nursing course.

NOTE: A revised nursing curriculum was implemented Fall, 2012. Students currently enrolled in the nursing program prior to Fall, 2012 will complete curriculum as outlined at the time of admission to the nursing program. Students should consult a nursing advisor for further information.

REQUIRED NURSING COURSES	Credits
NUR 106 Medical and Surgical Nursing Concepts	9
NUR 109 Fundamentals of Nursing	8
NUR 112 Basics of Pharmacology	2
NUR 150 Maternal-Child Nursing	7
NUR 206 Advanced Concepts of Medical Surgical Nursing I	8
NUR 211 Psychiatric-Mental Health Nursing	4
NUR 212 Pharmacology II	2
NUR 216 Advanced Concepts of Medical Surgical Nursing II	6
NUR 230 Transition to Professional Nursing Practice	5
Total Required Nursing Courses	51
REQUIRED GENERAL EDUCATION COURSES	CREDITS
BIO 201 Human Anatomy and Physiology I	4
BIO 202 Human Anatomy and Physiology II	4
BIO 204 Microbiology	4
BIO 216 Pathophysiology	4
ENG 121 English Composition I	3
HPR 108 Nutrition (or HWE 100 Human Nutrition 3 credits)	1
MAT 103 Math for Clinical Calculations	3
PSY 235 Human Growth and Development	3
Elective: GT Arts & Humanities or Social and Behavioral Science	3
Total Required General Education Courses	29
Total Credits Required for AAS Degree	80

Nursing Advanced Placement-Bridge Program (LPN to ADN)

The nursing program offers an advanced placement option. This program is for students who are licensed as a practical nurse in Colorado. Advanced placement through transfer, the Colorado Nursing Articulation Model, is available to licensed practical nurses and students from other schools.

Boulder County campus offers the Advanced Placement Program as a cohort of (24) students each summer. Westminster and Larimer Campuses offer the Advanced Placement Program as space is available.

Information regarding the Boulder County Campus nursing programs may be obtained by email at bccnursing@frontrange.edu.

Westminster Campus LPN to ADN meetings are held on the

second Wednesday of each Westminster Campus LPN to ADN meetings are held on the second Wednesday of each month (except for July or December) at 6 pm in Room B0353 or contact by e-mail at wcnursing@frontrange.edu.

Larimer Campus information can be obtained by e-mail from lccnursing@frontrange.edu.

Admission Process for LPN to ADN

There are a number of important changes in the admission process for the Boulder County Campus Bridge Program. In the past, students have been placed on a waitlist. The LPN-to-ADN Bridge Program is now piloting an admissions process to identify those students who are best prepared for the RN program, and assist those who wish to be admitted by identifying general education areas in need of further skill improvement before entering the RN nursing courses. At this point, no further students will be placed on the waitlist. Students whose names are currently on the Bridge Program waitlist will remain on the list and will be offered admission as their names reach the top. However, the following points should be noted:

- Students who are currently on the waitlist must periodically reaffirm their intention to be admitted to the program and should make sure that mailing addresses and contact information are current.
- The first sixteen students on the waitlist will be offered admission to the next nursing cohort.
- Eight students will be chosen from the waitlist based on selective criteria (including but not limited to grade point averages and scores on a nursing pre-admission exam). Students who are not selected will remain on the waitlist and will advance as others are admitted (if they do not remove themselves from the waitlist).
- Preadmission exam scores will be shared with applicants and advising will be available to assist them in identifying areas needing strengthening.
- Next year, the program intends to again offer admission to the first sixteen students on the waitlist; the other eight students will be chosen through a competitive process.

When all waitlisted students have been served, the program will initiate a competitive admissions process similar to what is now being piloted: an analysis of the strengths of students who are applying, coupled with suggestions regarding how to improve in weaker areas.

Requirements for Bridge Program Admission:

1. A current Colorado LPN license in good standing.
2. If transferring classes to FRCC, completion of a "Transfer Credit Evaluation Form" (Department of Admissions and Records)
3. Proof of completion of the following prerequisites with a grade of "C" or above on each course and a cumulative GPA of 2.75 for these courses.
 - ENG 121 English Composition I
 - BIO 201* Human Anatomy and Physiology I
 - BIO 202* Human Anatomy and Physiology II
 - BIO 204* Microbiology
 - PSY 235 Human Growth and Development
 - BIO 216* Pathophysiology

- HPR 108 Dietary Nutrition or HWE 100 Human Nutrition
- NUR 189 Transitions in Professional Nursing - LPN to ADN
- MAT 103** Math for Clinical Calculations* or approved Math course applicable to the AAS degree

* Science courses must have been completed within seven years of entry into the second year of the nursing program to be eligible for transfer approval.

** Contact a nursing representative for details regarding this math course prior to taking the course.

4. See program representative if PN certificate was obtained more than three years prior to admission. LPNs who have earned their certificate after more than 10 years prior to entry into the second year of the nursing program are required to take specified standardized exams for the first year of nursing credit, as specified by the Colorado Nursing Articulation Model.
5. Complete an FBI fingerprint check (required by all CCCS nursing programs).
6. Complete online background check and drug screening at American DataBank as directed by a nursing representative. See www.CCCS.edu/nursing for a list of criminal offenses appearing on a criminal background check that will disqualify an applicant for admission to a CCCS nursing program.
7. Complete a health summary with documented immunization records (just prior to entrance into the nursing program).
8. Complete the American Heart Association Health Care Provider course and receive a two-year recommended renewal date. The recommended renewal date must not expire prior to completion of the semester and must remain current throughout the nursing program.
9. Ability to speak and sufficiently understand English and to comprehend verbal communication of English-speaking clients.
10. Students accepted into the nursing program must meet the same health and safety requirements as the participating clinical facilities require of their own staff. Additional screening may be required for some clinical agencies. The expenses of these requirements are additional cost to students.
11. Applicants must complete the Program's nursing preadmission examination
12. Applicants must have current Colorado State intravenous certification

Note: Upon successful completion of the nursing program, students receive an associate of applied science degree and are eligible to apply to take the NCLEX® RN exam for licensure as a registered nurse.

To maintain a position in the program after starting nursing courses, students must be continually enrolled and complete all core nursing courses in sequence, as well as maintain a grade of C or above in all courses.

Only one re-entry to an FRCC nursing program is allowed after a student receives a "D," "F," or "U" grade in a nursing course or withdraws from a nursing course.

REQUIRED NURSING COURSES	CREDITS
NUR 189 Transition from LPN to ADN	4
NUR 206 Advanced Concepts of Medical Surgical	8

Nursing I	
NUR 211 Psychiatric-Mental Health Nursing	4
NUR 212 Pharmacology II	2
NUR 216 Advanced Concepts of Medical Surgical Nursing II	6
NUR 230 Transition to Professional Nursing Practice	5
Total Required Nursing Courses	29
REQUIRED GENERAL EDUCATION COURSES	
BIO 201 Human Anatomy and Physiology I	4
BIO 202 Human Anatomy and Physiology II	4
BIO 204 Microbiology	4
BIO 216 Pathophysiology	4
ENG 121 English Composition I	3
HPR 108 Dietary Nutrition or HWE 100 Human Nutrition (3)	1
MAT 103 Math for Clinical Calculations or approved Math course applicable to the AAS degree	3
PSY 235 Human Growth and Development	3
Elective: GTE Humanities or Social Behavioral Science	3
Total Required General Education Courses	29
Total Credits Required for AAS Degree (in addition to credits transferred in from LPN program)	58

Nursing - Certificate

Practical Nursing Program Certificate

Code: F_CER_LPN2 Campus: Boulder County

The Boulder County Campus offers a Practical Nursing program that is designed to prepare students to function as practical nurses. Employment opportunities are found in numerous health care organizations. Graduates of this program receive a certificate in practical nursing and are eligible to apply for the National Council Licensing Examination, Practical Nursing NCLEX®-PN for licensure to practice as an LPN.

The program is designed for students whose primary goal is practical nursing. The practical nursing program is a one-year program of study. Students may elect a part time program of study to complete the practical nursing program. If graduates of this program wish to continue their education to the registered nurse level, the student must apply for the bridge program for LPN to ADN-RN program.

Information regarding admission to the Advanced Placement-Bridge Program at the Boulder County Campus may be obtained by calling the nursing department assistant at 303-678-3850 or emailing bccnursing@frontrange.edu.

In the past, students have been placed on full-time and part-time program waitlists. The Practical Nursing Program is now piloting an admissions process to identify those students who are best prepared for the program and assist those who wish to be admitted by identifying general education areas in need of further skill improvement before entering the practical nursing courses. At this point, no further students will be placed on the waitlist. Students whose names are currently on the full-time and part-time program waitlists will remain on

the list and will be offered admission as their names reach the top. However, the following points should be noted:

- Students who are currently on the waitlists must periodically reaffirm their intention to be admitted to the program and should make sure that mailing addresses and contact information are current.
- The first eight students on each waitlist will be offered admission to the next nursing cohorts.
- Four students will be chosen from each waitlist based on selective criteria (including scores on a nursing pre-admission exam). Students who are not selected will remain on the waitlist and will advance as others are admitted (if they do not remove themselves from the waitlist).
- Preadmission exam scores will be shared with applicants and advising will be available to assist them in identifying areas needing strengthening.
- For each cohort, the program intends to again offer admission to the first eight students on each waitlist; the other four students for each of the full-time and part-time waitlists will be chosen through a competitive process.
- When all waitlisted students have been served, the program will initiate a competitive admissions process similar to what is now being piloted: an analysis of the strengths of students who are applying, coupled with suggestions regarding how to improve in weaker areas.

Front Range Community College's Practical Nursing program is approved by the Colorado Board of Nursing and accredited by the National League for Nursing Accreditation Commission, Inc. 3343 Peachtree Road NE, Suite 500, Atlanta, GA 30326 www.nlnac.org

Admission Process for Practical Nursing Certificate

Students should consult with a Nursing Advisor before applying to the program. See above for information regarding waitlists and the competitive admissions pilot.

1. All prerequisites must be completed before the student will be admitted into the practical nursing program and given a program start date. In addition, the following are required for admission: Required Basic Skill Assessment Scores - Students must obtain the following scores: Reading: RC 80 or greater, English: SS 95 or greater and WR 5-8, Mathematics: EA 61 or greater (or complete MAT 090 or MAT 107.) Science: department standard. Prerequisite courses must be completed with a Grade of "C" or above and a cumulative GPA of 2.75 :
 - BIO 106* Basic Anatomy and Physiology (or students may choose both BIO 201* Human Anatomy and Physiology I and BIO 202* Human Anatomy and Physiology II). Note: *Must be completed within seven years prior to entry into the nursing program.
 - ENG 121 English Composition I
 - HPR 108 Dietary Nutrition
2. Students must complete a background check to be admitted into the Practical Nursing Program. See www.healthcareex.com for a list of criminal offenses appearing on a criminal background check that will disqualify an applicant for admission to a CCCS nursing program.

3. Current CPR Course - Completion of the American Heart Health Care Provider course - "C" and receive a 2-year recommended renewal date. The recommended renewal date must not expire prior to completion of the semester and must remain current throughout the nursing program.
4. Completion of a health summary with documented immunization records (just prior to entrance into the nursing program).
5. Complete online criminal background check at American DataBank prior to clinical experience.
6. Ability to read, write, speak, and understand English and to comprehend verbal communication of English speaking clients.
7. Students accepted into the nursing program must meet the same health and safety requirements as the participating clinical facilities require of their own staff.
8. A urine drug screen will be required for part time PN students the semester of their first clinical experience.

Only one re-entry to the Practical Nursing program is provided after receiving a "D," "F," "U" or "W" grade in a required NUR course. In order to graduate from this program, students must earn a grade of "C" or above in all courses required for the certificate.

REQUIRED NURSING COURSES	CREDITS
NUR 101 Pharmacology Calculations	1
NUR 102 Alterations in Adult Health I	4
NUR 103 Basic Health Assessment for the Practical Nurse	1
NUR 104 Alterations in Adult Health II	5
NUR 105 Practical Nursing Arts and Skills	6.5
NUR 110 Basic Pharmacology for the Practical Nurse	3
NUR 111 Socialization into Practical Nursing	1
NUR 113 Basic Concepts of Maternal-Newborn Nursing	2
NUR 114 Basic Concepts of Nursing of Children	2
NUR 115 Basic Concepts of Mental Health and Illness	1
NUR 116 Basic Concepts of Gerontological Nursing	1
NUR 131 Clinical I: Application of Practical Nursing Arts and Skills	4.5
NUR 132 Clinical II: Application of Alterations in Adult Health	3
NUR 133 Clinical III: Application of Basic Concepts of Maternal-Newborn and Pediatric Nursing	1.5
NUR 134 Clinical IV: Advanced Application in Adult Health	4.5
Total Required Nursing Courses	41
REQUIRED GENERAL EDUCATION COURSES	CREDITS
BIO 106 Basic Anatomy and Physiology (or BIO 201 Human Anatomy and Physiology I and BIO 202 Human Anatomy and Physiology II)	4
ENG 121 English Composition I	3
HPR 108 Dietary Nutrition or HWE 100 Human Nutrition 3 Credits	1
Total Required General Education Courses	8
Total Required Credits for the Certificate	49

Nurse Aide Certificate

Code: F_CER_NUAD Campus: Boulder County, Larimer and Westminster

This certificate is designed to provide the student with entry-level skills required for employment as a nurse's aide in a long-term care facility, an acute care facility or a home health care agency. Special needs of the geriatric population are emphasized. A grade of "C" or above is required for all certificate courses. This certificate qualifies students to take the State Certification Examination.

The State Board of Nursing requires a passing criminal background check for all applicants for the State Certification Examination and to attend the clinical. **Call the campus for information on beginning the background check.** Illegal behaviors that may make students ineligible to be certified include, but are not limited to: physical abuse, theft, illegal use of weapons, or illegal use or possession of controlled substances. Students will be required to have immunizations to meet O.S.H.A. guidelines (**current negative TB test and flu shot during the months of October 1st through March 31st. MMR x 2 will be required on the Larimer campus**).

The Boulder and Westminster campuses have a campus-specific Nurse Aide Information Packet, which is due two weeks prior to the start of classes. This packet is distributed at the **required** monthly Nurse Aide Information meeting. Please contact the individual campuses for meeting time and locations.

REQUIRED COURSES	CREDITS
NUA 101 Certified Nurse Aide Health Care Skills	4
NUA 170 Nurse Aide Clinical Experience	1
Total Required Credits for Certificate	5

Paralegal Studies - Associate of Applied Science Degree

Code: F_AAS_PAR Campus: Westminster, Online

This degree is designed for individuals who are seeking a career in the legal profession as a legal assistant/paralegal. Paralegals work under the supervision of an attorney and their work includes preparing legal documents, researching and compiling information, and communicating with clients. Paralegals are not authorized to practice law under any circumstances. Excellent written and oral communication skills, as well as computer literacy skills, are important to the paralegal. This program allows for technical training in the paralegal field and to work effectively with computers and legal research.

Courses in this program are offered online and in the classroom. Classroom courses are offered at both the Westminster and Larimer campuses. Classes are offered Fall, Spring and Summer semesters. Students must be computer literate and knowledgeable about the internet.

In addition, the program provides the opportunity for students and current paralegals who wish to upgrade existing job skills or those who are seeking a career change.

Assessment testing is required for all students. Students who place into ENG 121 (or above), MAT 090 (or above), and REA 090 (or above) may begin this program of study. Students scoring below this level should consult with a faculty member before registering for courses in this program of study.

All courses in the degree and certificates must be completed with a "C" or above to graduate.

REQUIRED COURSES	CREDITS
PAR 115 Introduction to Law	3
PAR 116 Torts	3
PAR 118 Contracts	3
PAR 125 Property Law	3
PAR 127 Legal Ethics	3
PAR 201 Civil Litigation	3
PAR 206 Business Organizations	3
PAR 211 Legal Research	3
PAR 212 Legal Writing	3
PAR 219 E-Discovery and Litigation Technology	3
PAR 289 Capstone	3
Total Required Credits	33

REQUIRED COURSES	CREDITS
<i>Select 9 credits from the following:</i>	
PAR 117 Family Law	3
PAR 126 Administrative Law	3
PAR 202 Evidence	3
PAR 205 Criminal Law	3
PAR 208 Probate and Estates	3
PAR 216 Employment Law	3
PAR 228 Intellectual Property	3
Total Required Elective Credits	9

REQUIRED GENERAL EDUCATION COURSES	CREDITS
COM 115 Public Speaking	3
ENG 121 English Composition I	3
ENG 122 English Composition II	3
MAT 107 Career Mathematics (or higher MAT course)	3
POS 111 American Government	3
Natural & Physical Sciences or Arts and Humanities elective selected from the GT courses	3
Total Required General Education Credits	18
Total Required Credits for AAS Degree	60

Paralegal Studies - Certificate

Assessment testing is required for all students. Students who place into ENG 090 (or above), MAT 090 (or above), and REA 090 (or above) may begin this program of study.

Legal Assistant Certificate

Code: F_CER_LGA2 Campus: Westminster, Online

This certificate is designed for individuals who are seeking a career in the legal profession as a legal assistant/paralegal. This certificate allows for technical training in the paralegal field and to work effectively with computers and legal research. Courses in this program are offered online and in the classroom. Courses in this program are offered Fall, Spring and Summer semesters. All students enrolled in the program must be computer literate and knowledgeable about the Internet.

Assessment testing is required for all students. Students who are reading at the college level and place into ENG 090 (or above), MAT 090 (or above), and REA 090 (or above) may begin this program of study.

REQUIRED COURSES	CREDITS
ENG 121 English Composition I	3
PAR 115 Introduction to Law	3
PAR 201 Civil Litigation	3
PAR 206 Business Organizations	3
PAR 211 Legal Research	3
PAR 212 Legal Writing	3
PAR 219 E-Discovery and Litigation Technology	3
PAR 289 Capstone	3
Total Required Credits	24
REQUIRED ELECTIVE COURSES	CREDITS
<i>Select 2 courses from the following:</i>	
PAR 116 Torts	3
PAR 117 Family Law	3
PAR 118 Contracts	3
PAR 125 Property Law	3
PAR 126 Administrative Law	3
PAR 127 Legal Ethics	3
PAR 202 Evidence	3
PAR 205 Criminal Law	3
PAR 208 Probate and Estates	3
PAR 209 Constitutional Law	3
PAR 216 Employment Law	3
PAR 217 Environmental Law	3
PAR 228 Intellectual Property	3
Total Required Elective Credits	6
Total Required Credits for Certificate	30

Pharmacy Technician - Certificate

Code: F_CER_PHT2 Campus: Westminster

Assessment testing is required for all students. Students who place into ENG 090 (or above), MAT 090 (or above), and REA 090 (or above) may begin this program of study. Students scoring below this level should consult with a faculty member before registering for courses in this program of study.

This certificate prepares students to assist pharmacists with the technical tasks in community and hospital pharmacy settings, as well as several additional settings. Pharmacy technicians currently in the field may upgrade their skills and meet continuing education recertification requirements by enrolling in specific program courses.

The curriculum is in a modular format consisting of three five-week instructional modules. Two modules of experiential practice follow the three modules in the following semester. Students may enter the program either in the fall or spring semester. This program is accredited by the American Society of Health System Pharmacists (ASHP).

Additional expenses incurred during the PHT program may include identification badges, books, lecture notes, scrubs (for

institutional rotation, PHT 116 and PHT 119) lab coat (for community rotation), criminal background check, 10-panel drug screen and immunizations prior to externships.

Program Admission Requirements:

1. Completion of the PHT program application for admission.
2. Complete an interview with the PHT program director or a PHT faculty member prior to enrollment.
3. Completion of program entrance requirements.
4. Attending high school, or possess a GED or high school diploma.
5. Demonstrate keyboarding skills of 25 WPM or higher.
6. No previous conviction for a drug-related crime.
7. Submission of a résumé.
8. Complete criminal background check at student's expense.
9. Pass a 10-panel drug screen at student's expense.
10. Completion of a PHT health summary with documented immunization records prior to clinical rotations.

Assessment testing is required of all students. Students who are reading at the college level, and place into ENG 090 and MAT 090 (or above) may begin this program of study.

REQUIRED COURSES	CREDITS
PHT 111 Orientation to Pharmacy	3
PHT 112 Pharmacy Law	2
PHT 113 Pharmacy Calculations and Terminology	1
PHT 114 Computer Skills for Pharmacy Technicians	1
PHT 115 Pharmacology of the GI, Renal, Reproductive, Immune, Dermatologic Systems	3
PHT 116 Institutional Pharmacy	3
PHT 117 Communication for Pharmacy Technicians	1
PHT 118 Pharmacology of the Nervous, Endocrine, Musculoskeletal Systems	3
PHT 119 Community Pharmacy	3
PHT 120 Medical Insurance Procedures	1
PHT 170 Pharmacy Clinical: Hospital	4
PHT 171 Pharmacy Clinical: Community	4
Total Credits Required for Certificate	29

Phlebotomy - Certificate

Code: F_CER_PHLB Campus: Larimer

This certificate is designed to provide the student with entry-level skills required for employment as a phlebotomist. HPR 112 and HPR 113 are corequisites. HPR 113 is the clinical portion, and the student will complete 100 hours of clinicals in a 2-1/2-week block. A background check is required for HPR 113. A grade of "C" or above is required for all certificate courses. Successful completion of HPR 112 and HPR 113 will qualify the student to sit for a national certifying exam. Students are required to have immunizations, 2 MMR, and a current TB test.

REQUIRED COURSES	CREDITS
HPR 112 Phlebotomy	4
HPR 113 Advanced Phlebotomy	4
Total Credits Required for Certificate	8

Teacher Education

(See Elementary Education or Early Childhood Education for Transfer)

Teaching English as a Second Language (TESL) - Certificates

This certificate prepares students for entry-level employment as tutors, paraprofessionals, or teachers of English to adults and school-age children in numerous educational settings. In some cases, a university degree may be required for English as a Second Language instructor.

Program Admission Requirements:

1. Complete and submit applications for admission to the Teaching English as a Second Language (TESL) program and to FRCC at www.frontrange.edu/tesl.
2. Demonstrate proficiency in English by receiving a 95 or higher on Accuplacer sentence skills. International students seeking admission to the program are required to have a minimum score of 475 on the paper/pencil TOEFL test, a score of 153 on the computer-based examination, or an "equated" score of 75 on the Michigan Test of English Language proficiency.
3. Apply to FRCC for admission upon acceptance into the program.

Assessment testing is required for all students. Students who place into ENG 121 (or above), MAT 090 (or above), and REA 090 (or above) may begin this program of study.

Teaching English as a Second Language Certificate Abroad (TESL-A)

Code: F_CER_TESL Campus: Boulder County, Larimer

REQUIRED COURSES	CREDITS
TEL 100 TESL (Teaching English as a Second Language) English Study	3
TEL 102 Procedures and Techniques for the ESL Classroom	3
TEL 103 Career Strategies for the TESL Workplace	1
TEL 188 TESL Teaching Practicum	2
TEL 225 Second Language Acquisition	3
EDU 134 Teaching English as a Second Language to Adult Learners Or TEL 101 Instructional Theories and Methodology for the ESL Classroom	3
EDU 289 Capstone	1
Total Required Credits for Certificate	16

Teaching English as a Second Language Certificate K-12 (TESL-K)

Code: F_CER_ESLK Campus: Boulder County

REQUIRED COURSES	CREDITS
TEL 100 TESL (Teaching English as a Second Language) English Study	3
TEL 102 Procedures and Techniques for the ESL Classroom	3
TEL 103 Career Strategies for the TESL Workplace	1
TEL 188 TESL Teaching Practicum	2
TEL 225 Second Language Acquisition	3
TEL 245 ESL in the Content Areas	3

EDU 289 Capstone	1
Total Required Credits for Certificate	16

Veterinary Technology - Associate of Applied Science Degree

Code: F_AAS_VET2 Campus: Larimer

This program offers two educational options: a two-semester Veterinary Technician Assistant certificate (a separate listing follows) and a two-year Veterinary Technician Associate of Applied Science Degree. A related program is the Animal Laboratory Technician program (see separate entry under that program title).

The Veterinary Technician AAS degree program provides training in veterinary health and the handling of a variety of domestic and exotic animals, as well as laboratory animals encountered in a veterinary practice or biomedical research setting. While veterinary technicians serve as paraprofessional members of the veterinary medical team, veterinary technicians do not diagnose animal illnesses, prescribe treatment, or perform surgery.

Assessment testing is required for all students. Students who place into ENG 090 (or above), MAT 090 (or above), and REA 090 (or above) may begin these program options. Students scoring below this level should consult with a faculty member before registering for courses in this program of study.

The program's curriculum includes such topics as anatomy and physiology, radiology, parasitology, medical and surgical nursing, anesthesia, pharmacology, and other related scientific areas of veterinary health or related skills areas. This curriculum is not intended to provide admission to a college of veterinary medicine.

A critical component of the program is student participation in clinical internships. Between the second and third semesters, a 135-hour private practice internship is required. In the final semester, students participate in clinical rotations at the Colorado State University Veterinary Teaching Hospital. This training includes such areas as critical care, large animal medicine and surgery, small animal care, and other related areas.

Admission Requirements:

To enter the program, students must meet the following admission requirements:

1. Completion of a high school diploma or GED.
2. Achievement of indicated assessment scores and completion of preparatory coursework.
3. Completion of ENG 131 Technical Writing I or ENG 121 English Composition I with a grade of "C" or above.
4. Completion of BIO 111 General College Biology I with a grade of "C" or above (no more than seven years old).
5. Completion of a Veterinary Technology Intent to Enroll application form available at the Larimer Campus or online at www.frontrange.edu.
6. Completion of HPR 178 Medical Terminology, with a grade of "C" or above.
7. Completion of MAT 107 Career Math or MAT 103 Math for Clinical Calculations or MAT 121 College Algebra, with a grade of "C" or above.

Admission to the program is limited to the first 24 students who have submitted the appropriate admission materials. It is strongly recommended that students complete the required general education courses prior to beginning the program. Students must be admitted to the VET program to enroll in any VET prefix courses. Students admitted to the Laboratory Animal Technology (ALT) program may enroll in VET 116 and 205. Certified Veterinary Technicians may enroll in VET 242.

All courses must be completed with a grade of "C" or above prior to graduation.

REQUIRED COURSES	CREDITS
VET 106 Exotic Animal Handling	2
VET 108 Introduction to Laboratory Procedures	3
VET 115 Surgical Nursing	2
VET 116 Humane Treatment and Handling of Animals	3
VET 120 Office Procedures and Relations	2
VET 134 Diagnostic Imaging	2
VET 180 Internship: Private Practice	3
VET 205 Veterinary Anatomy & Physiology I	4
VET 206 Veterinary Anatomy & Physiology II	4
VET 224 Pharmacology for Veterinary Technicians	3
VET 225 Anesthesiology	3
VET 227 Animal Nutrition	2
VET 240 Veterinary Medicine & Surgery	4
VET 241 Clinical Laboratory Procedures	4
VET 243 Veterinary Diagnostic Microbiology	3
VET 250 Clinical Competency Evaluation	1
VET 280 Internship	11
TOTAL REQUIRED CREDITS	56
REQUIRED GENERAL EDUCATION COURSES	CREDITS
BIO 111 General College Biology I w/Lab	4
COM 125 Interpersonal Communication Or COM 115 Public Speaking	3
*ENG 131 Technical Writing I Or ENG 121 English Composition I	3
HPR 178 Medical Terminology	1
*MAT 107 Career Mathematics or MAT 103 Math for Clinical Calculation	3
Arts & Humanities or Social & Behavioral Sciences Elective **	3
Total Required General Education Credits	18
Total Required Credits for AAS Degree	73
ELECTIVE COURSES (OPTIONAL)	Credits
VET 109 Applied Comp Animal Behavior	3
VET 181 Internship: Laboratory Animal Technology	2
VET 242 Veterinary Critical Care	2

Note: * For students who are planning to continue in a four-year, science-based program, these courses do not fulfill degree requirements. The following courses are required: ENG 121 and MAT 121.

** Electives must be selected from the Approved General Education Electives List for the AAS degree.

Veterinary Technology - Veterinary Technician Assistant Certificate

Code: F_CER_VTA1 Campus: Larimer

The Veterinary Technician Assistant certificate program provides training in veterinary health and handling of a variety of domestic and exotic species, with the focus on tasks for assisting the Veterinary Technician and Veterinarians. Veterinary Technician Assistants do not diagnose animal illnesses, prescribe treatment, or perform surgery. Eleven credit hours of course work are required before the student may complete a 2-credit, 72-hour private-practice internship. This program provides an introduction to the field of veterinary medicine, but is not intended to provide admission to a college of veterinary medicine.

Admission Requirements:

To enter the program, students must meet the following admission requirements:

1. Completion of a high school diploma or GED
2. Achievement of indicated assessment scores or completion of preparatory course work.
3. Completion of high school level biology or BIO 105 or BIO 111 with a grade of "C" or above (no more than seven years old)
4. Completion of or concurrent enrollment in HPR 178 Medical Terminology (1 credit), with a grade of "C" or above.
5. Completion of a Veterinary Technician Assistant intent to enroll application form available at the Larimer Campus.

Admission to the program is limited to the first 12 students who have submitted the appropriate admission materials. Students must be admitted to the Veterinary Technician Assistant program in order to take the curriculum courses as shown below.

All courses must be completed with a grade of "C" or above prior to graduation.

REQUIRED COURSES	CREDITS
VET 103 Veterinary Assistant Restraint and Handling	3
VET 113 Veterinary Assistant Surgical Nursing and Care	3
VET 114 Veterinary Assistant Laboratory and Clinical Procedures	2
VET 120 Office Procedures and Relations	2
VET 183 Internship: Private Practice	2
HPR 178 Medical Terminology	1
Total Required Credits	13
REQUIRED GENERAL EDUCATION COURSES	CREDITS
BIO 105 Science of Biology or BIO 111 General College Biology I with Lab	4
Total Required General Education Credits	4
Total Required Credits for Certificate	17

Welding Technology - Associate of Applied Science Degree

Code: F_AAS_WTE Campus: Larimer and Westminster

This program provides entry-level as well as upgrading skills in welding technology.

This program is offered on an open-entry basis: students may complete some of the courses, enter the workforce, then return at any time either to complete the program or to upgrade specific skills.

All courses applied to the degree or certificate must be completed with a grade of "C" or above.

Assessment testing is required for all students. Students who place into ENG 090 (or above), MAT 090 (or above), and REA 090 (or above) may begin this program of study. Students scoring below this level should consult with a faculty member before registering for courses in this program of study.

All new welding students must contact the welding program for advising in Room RP120 at Larimer, or call 970-204-8301.

REQUIRED COURSES	CREDITS
MTE 110 Manufacturing Communication and Teamwork	3
WEL 100 Safety for Welders	1
WEL 101 Allied Cutting Processes	4
WEL 103 Basic Shielded Metal Arc I	4
WEL 104 Basic Shielded Metal Arc II	4
WEL 106 Blueprint Reading for Welders & Fitters	4
WEL 110 Advanced Shielded Metal Arc I	4
WEL 124 Introduction to Gas Tungsten Arc Welding	4
WEL 125 Introduction to Gas Metal Arc Welding	4
WEL 224 Advanced Gas Tungsten Arc Welding	4
WEL 225 Advanced Gas Metal Arc Welding	4
WEL 250 Layout and Fabrication	4
Elective: ASE, CAD, HVAC, ENT, WEL	1
Total Required Credits	45

REQUIRED GENERAL EDUCATION COURSES	CREDITS
ENG 131 Technical Writing I	3
MAT 107 Career Mathematics	3
PHY 105 Conceptual Physics	4
General Studies Elective*	3
Social and Behavioral Sciences or Arts and Humanities Elective*	3
Total Required General Education Credits	16
Total Required Credits for AAS Degree	61

Note: The Pipe Code Welding certificate may be substituted for 12 welding credits with welding faculty advisor approval.

* Electives must be selected from the Approved General Education Electives List for the AAS degree.

Welding Technology - Certificates

Comprehensive Welding Certificate

Code: F_CER_WTEC Campus: Larimer

REQUIRED COURSES	CREDITS
WEL 100 Safety for Welders	1

WEL 101 Allied Cutting processes	4
WEL 103 Basic Shielded Metal Arc I	4
WEL 104 Basic Shielded Metal Arc II	4
WEL 106 Blueprint Reading for Welders & Fitters	4
WEL 110 Advanced Shielded Metal Arc I	4
WEL 124 Introduction to Gas Tungsten Arc Welding	4
WEL 125 Introduction to Gas Metal Arc Welding	4
WEL 224 Advanced Gas Tungsten Arc Welding	4
WEL 225 Advanced Gas Metal Arc Welding	4
WEL 250 Layout and Fabrication	4
Total Required Credits for Certificate	41

Gas Metal Arc Welding (MIG) Certificate

Code: F_CER_WTEM Campus: Larimer

REQUIRED COURSES	CREDITS
WEL 100 Safety for Welders	1
WEL 125 Introduction to Gas Metal Arc Welding	4
WEL 225 Advanced Gas Metal Arc Welding	4
Total Required Credits for Certificate	9

Gas Tungsten Arc Welding (TIG) Certificate

Code: F_CER_WTET Campus: Larimer and Westminster

REQUIRED COURSES	CREDITS
WEL 100 Safety for Welders	1
WEL 124 Introduction to Gas Tungsten Arc Welding	4
WEL 224 Advanced Gas Tungsten Arc Welding	4
Total Required Credits for Certificate	9

Oxyacetylene Welding Certificate

Code: F_CER_WTEO Campus: Larimer and Westminster

REQUIRED COURSES	CREDITS
WEL 100 Safety for Welders	1
WEL 101 Allied Cutting Processes	4
Total Required Credits for Certificate	5

Pipe Code Welding Certificate

Code: F_CER_WTEP Campus: Larimer and Westminster

REQUIRED COURSES	CREDITS
WEL 100 Safety for Welders	1
WEL 230 Pipe Welding I	4
WEL 231 Pipe Welding II	4
WEL 240 Pipe Welding Certification	4
Total Required Credits for Certificate	13

Creative Metalworking Certificate

Code: F_CER_WTED Campus: Larimer and Westminster

REQUIRED COURSES	CREDITS
ART 110 Art Appreciation	3
ART 121 Drawing I	3
CAD 101 Computer-Aided Drafting I	3
CAD 102 Computer-Aided Drafting II	3
WEL 100 Safety for Welders	1
WEL 101 Allied Cutting processes	4

WEL 124 TIG Welding	4
WEL 289 Capstone	1
Choose one of the following:	3
ART 132 3-D Design	
or ART 154 Sculpture I	
or ART 275 Blacksmithing	
Choose one of the following:	3
CAD 202 Computer-Aided Drafting/3D	
or CAD 240 Inventor I/AutoDesk	
or CAD 255 Solid Works/Mechanical	
Total Required Credits for Certificate	28

Shielded Metal Arc Welding Certificate

Code: F_CER_WTES
Campus: Larimer and Westminster

REQUIRED COURSES	CREDITS
WEL 100 Safety for Welders	1
WEL 103 Basic Shielded Metal Arc I	4
WEL 104 Basic Shielded Metal Arc II	4
WEL 110 Advanced Shielded Metal Arc I	4
Total Required Credits for Certificate	13

Welding Fundamentals Certificate

Code: F_CER_WTEF
Campus: Larimer and Westminster

REQUIRED COURSES	CREDITS
<i>Select a minimum of 6 credits from the following:</i>	
WEL 100 Safety for Welders	1
WEL 101 Allied Cutting Processes	4
WEL 103 Basic Shielded Metal Arc I	4
WEL 104 Basic Shielded Metal Arc II	4
WEL 124 Introduction to Gas Tungsten Arc Welding	4
WEL 125 Introduction to Gas Metal Arc Welding	4
Total Required Credits for Certificate	9

Course Descriptions

This section describes credit courses offered by FRCC. Courses are grouped by subject areas and programs. The programs and areas are in alphabetical order.

- Each course title begins with a three-letter subject area and the course number (e.g., ENG 121). The number in parentheses to the right of the entry specifies credit hours earned for the course. The course description briefly explains course content.
- Some courses have prerequisites or corequisites. A prerequisite must be taken before entering a course. A corequisite must be taken prior to, or concurrently with, a course. In individual cases, prerequisites or corequisites may be waived upon approval of the instructor, chair and instructional dean.
- Contact Hours indicate the total number of class hours during the term.
- Some courses require a special laboratory fee.
- Only courses numbered 100 or above (except for ENG 110, MAT 099, and REA 112) may be used to fulfill certificate or degree requirements.

Note: ENG 110 and MAT 099 may meet the general education mathematics requirement for designated A.A.S. Degrees only.

Not all courses are offered each term at every site. Please refer to the current Class Schedule at www.frontrange.edu.

For a list of suggested courses in specific programs of study, refer to the appropriate program in the Instructional Programs section.

For additions, deletions, and other changes from last year's catalog, see Course Changes.

State Guaranteed General Education Transfer Courses

Courses with an * have been identified by the Colorado Department of Higher Education as being the State Guaranteed General Education courses.

In addition, guaranteed transfer courses are identified by the designations in the chart below.

AH - Arts and Humanities

- AH1 - Arts and Expression
- AH2 - Literature and Humanities
- AH3 - Ways of Thinking
- AH4 - Foreign Languages

CO - Communication

- CO1 - Introductory Writing Course
- CO2 - Intermediate Writing Course

HI - History

No subcategories

MA - Mathematics

No subcategories

SC - Natural and Physical Sciences

- SC1 - Science with Laboratory
- SC2 - Science without Laboratory

SS - Social and Behavioral Sciences

- SS1 - Economic and Political Systems
- SS2 - Geography
- SS3 - Human Behavior, Cultural, or Social Frameworks

Additional Specialized Courses

The following specialized courses are offered within each program area. For further information contact a Program Advisor. (Credit hours are variable.)

XXX 170-174, 270-274 CLINICAL

Offers the clinical practicum to apply the related theory.
(22.5-45 Contact Hours PER CREDIT)

XXX 175-177, 275-277 SPECIAL TOPICS

Provides students with a means to pursue in-depth exploration of special topics of interest.
(Contact Hours VARY)

XXX 178-179, 278-279 SEMINAR/WORKSHOP

Provides students with select areas of study within a program of study.
(15 Contact Hours PER CREDIT)

XXX 180-184, 280-284: INTERNSHIP

Provides students with the opportunity to supplement coursework with practical work experience related to their educational program. Students work under the immediate supervision of experienced personnel at the business location and with the direct guidance of the instructor/ coordinator.
(45 Contact Hours PER CREDIT)

XXX 185, 285: INDEPENDENT STUDY

Meets the individual needs of students. Students engage in intensive study or research under the direction of a qualified instructor. Students are reminded that no more than six (6) credit hours of independent study may be applied to any associate degree program.
(30 Contact Hours PER CREDIT)

XXX 187, 287: COOPERATIVE EDUCATION

Provides students with the opportunity to supplement coursework with paid practical work experience related to their educational program. Students work under the immediate supervision of experienced personnel at the business location and with the direct guidance of the instructor/coordinator.
(45 Contact Hours PER CREDIT)

XXX 188, 288: PRACTICUM

Provides the learner the opportunity for the practical application of classroom theory within a given program of study.
(30 Contact Hours PER CREDIT)

XXX 289: CAPSTONE

Focuses on demonstrated culmination of learning within a given program of study.
(15-45 Contact Hours PER CREDIT)

AAA - Advancement of Academic Achievement

AAA 050 ACADEMIC ACHIEVEMENT STRATEGIES (2)

Emphasizes basic study skills in order to bolster their chances of successfully completing the current semester.

30 Contact Hours.

AAA 090 ACADEMIC ACHIEVEMENT STRATEGIES (3)

Develops personalized approaches to learning and succeeding for easier transition into college. Topics include goal-setting, time management, textbook reading strategies, note-taking, test-taking, listening techniques, concentration and memory devices, and critical thinking for student success.

45 Contact Hours.

AAA 095 MATH HELPS (1)

Provides the opportunity to supplement current math course with mathematical instruction individually designed to 'fill in the holes' of missing mathematical concepts. In addition, the course serves as a solid review of mathematical concepts in preparation for college level math courses. Students will study the content area needed for that student, as indicated by a diagnostic assessment.

45 Contact Hours

AAA 101 COLLEGE 101: STUDENT EXPERIENCE (1)

Introduces students to college culture and prepares them for the challenges they will face in higher education. Through a series of interactive seminars, students discover learning in a multicultural environment and how to use college and community resources to attain education and career goals.

15 Contact Hours

AAA 109 ADVANCED ACADEMIC ACHIEVEMENT (3)

Examines theories and practices associated with successful learning to enhance college success. Areas of study include education and career planning, effective communication, personal management, critical and creative thinking, development of community and awareness of diversity, leadership, and techniques for successful academic performance. Recommended for new and returning students.

45 Contact Hours.

ACC - Accounting

ACC 101 FUNDAMENTALS OF ACCOUNTING (3)

Presents the basic elements and concepts of accounting with emphasis on the procedures used for maintaining journals, ledgers, and other related records, and for the completion of end-of-period reports for small service and merchandising businesses.

45 Contact Hours. Prerequisite: None

ACC 115 PAYROLL ACCOUNTING (3)

Studies federal and state employment laws and their effects on personnel and payroll records. The course is non-technical and is intended to give students a practical working knowledge of the current payroll laws and actual experience in applying regulations. Students are exposed to computerized payroll procedures.

45 Contact Hours. Prerequisite: ACC 101 or ACC 121

ACC 121 ACCOUNTING PRINCIPLES I (4)

Introduces the study of accounting principles for understanding of the theory and logic that underlie procedures and practices. Major topics include the accounting cycle for service and merchandising companies, special journals and subsidiary ledgers, internal control principles and practices, notes and interest, inventory systems and costing, plant assets and intangible asset accounting, and depreciation methods and practices.

60 Contact Hours. Recommended Preparation: ACC 101

ACC 122 ACCOUNTING PRINCIPLES II (4)

Continues the study of accounting principles as they apply to partnerships and corporations. Major topics include stocks and bonds, investments, cash flow statements, financial analysis, budgeting, and cost and managerial accounting.

60 Contact Hours. Prerequisite: ACC 121.

ACC 131 INCOME TAX (3)

Studies basic concepts of federal income taxation; including gross income, deductions, accounting periods and methods, and property transactions, with emphasis on taxation of individuals and sole proprietorships.

45 Contact Hours. Prerequisite: ACC 121

ACC 132 TAX HELP COLORADO (2)

This course prepares the students for preparation of federal and state income tax returns for individuals. Emphasis is placed on form preparation with the use of tax software.

30 Contact Hours.

ACC 133 TAX HELP COLORADO PRACTICUM (1)

This course allows students to prepare actual federal and state income tax returns for individuals in the real time environment.

30 Contact Hours. Prerequisites: ACC 131 or ACC 132

ACC 135 SPREADSHEET APPLICATIONS FOR ACCOUNTING (3)

Introduces spreadsheets as an accounting tool. Using an accounting perspective, the student applies fundamental spreadsheet concepts. The spreadsheet is used as a problem solving and decision making tool.

45 Contact Hours. Prerequisites: ACC 122 and CIS 155.

ACC 211 INTERMEDIATE ACCOUNTING I (4)

This course focuses on comprehensive analysis of generally accepted accounting principles (GAAP), accounting theory, concepts, and financial reporting principles for public corporations. It is the first of a two-course sequence in financial accounting and is designed primarily for accounting and finance majors. This course also focuses on the preparation and analysis of business information relevant and useful to external users of financial statements. Explores the theories, principles and practices surveyed in Accounting Principles and critically examines "real-world" financial analysis and reporting issues.

60 Contact Hours. Prerequisite: ACC 122.

ACC 212 INTERMEDIATE ACCOUNTING II (4)

This course focuses on the theoretical and practical aspects of accounting for long-term liabilities, stockholders' equity, investments, pensions and leases. This includes income tax allocation, financial statement analysis, cash flow statements and accounting method changes.

60 Contact Hours. Prerequisite: ACC 211.

ACC 216 GOVERNMENT AND NOT-FOR-PROFIT ACCOUNTING (3)

Addresses concepts of budgetary control as a matter of law and public administration theory. Accounting principles and procedures necessary to implement budgetary controls for governmental units and other not-for-profit institutions and organizations are presented.

45 Contact Hours. Prerequisites: ACC 122

ACC 226 COST ACCOUNTING (3)

Studies cost accumulation methods and reports. Focuses on the concepts and procedures of job order, process, standard, and direct cost systems, budgeting, planning, and control of costs.

45 Contact Hours. Prerequisite: ACC 122.

ACC 231 BUSINESS TAXATION (3)

Introduces student to taxation of business entities and transactions. Topics include taxation of property transactions, various tax issues that apply to different tax entities, tax administration and practice, and the taxation effects of formation, operation, and dissolution of corporations, partnerships, S corporations, trusts and estates.

45 Contact Hours. Prerequisite: ACC 121 & ACC 131

ACC 245 COMPUTERIZED ACCOUNTING WITH A PROFESSIONAL PACKAGE (3)

Integrates accounting principles and practices with a computerized accounting package such as Peachtree, DacEasy, or other professional package. Emphasizes computerized functions of the general ledger and integrated accounts payable, accounts receivable, invoicing and payroll systems.

45 Contact Hours. Prerequisite: ACC 101 or ACC 121

ACC 255 VITA - VOLUNTEER INCOME TAX ASSISTANCE (3)

This course prepares students in preparation of federal and state income tax returns in order to participate in the Volunteer Income Tax Assistance program offered to low income and elderly persons in their communities.

45 Contact Hours. Prerequisite: ACC 131 or permission of instructor

ACC 265 ENROLLED AGENT EXAM REVIEW COURSE (3)

Reviews concepts learned in study of accounting, individual and business income tax and ethical decision making as they relate to passing the IRS Enrolled Agent Exam.

45 Contact Hours. Prerequisite: ACC 231

ACC 269 ACCOUNTING SYSTEMS (3)

Provides students the opportunity to study the flow of accounting information within an organization, with emphasis on integration of accounting subsystems and internal control procedure in both manual and computerized systems. This class also includes a review of library research, professional ethics, and resume-writing and interview techniques.

45 Contact Hours. Prerequisite: ACC 121. Co-requisite: ACC 122.

ACC 280 INTERNSHIP (1-12)

Provides students with the opportunity to supplement coursework with practical work experience related to their educational program. Students work under the immediate

supervision of experienced personnel at the business locations and with the direct guidance of the instructor.

45 Contact Hours per credit. Prerequisites: To be determined by the instructor

ACC 289 CAPSTONE: COMPANY FINANCIAL OVERVIEW (1)

Provides pending accounting graduates with the opportunity to evaluate their analysis skills, both during the application process and afterwards when considering the viability of the company. Using the knowledge acquired from their academic studies, the student prepares the computerized records and evaluates the financial standing for one company. Financial analysis using spreadsheet capabilities and written report skills are included. The student works independently of a traditional classroom setting.

15 Contact Hours. Prerequisites: ACC 122, ACC 135, and ACC 245 and semester of graduation.

ACC 294 SERVICE LEARNING (1-12)

Allows the student to provide a service to the community utilizing knowledge and skills acquired from a course in which the student is currently enrolled or has previously taken at the student's respective college.

45 Contact Hours

See the list of Specialized Accounting Courses on the first page of this Course Offerings section.

AEC - Architectural Engineering and Construction Technology

AEC 101 BASIC ARCHITECTURAL DRAFTING (4)

Introduces the student to basic architectural drafting techniques. Topics explored in lecture and through project work include: use of instruments, geometric construction, multiview, oblique and isometric projections, and basic construction drawings.

90 Contact Hours.

AEC 102 RESIDENTIAL CONSTRUCTION DRAWING (4)

Covers an investigation of light frame construction techniques and the production of residential construction drawings. The course covers residential construction materials, components and systems related to wood frame structures. Students produce a professional set of construction drawings of a residential structure.

90 Contact Hours. Prerequisite: AEC 101 and CAD 101. Recommended Preparation: AEC 121

AEC 121 CONSTRUCTION MATERIALS AND SYSTEMS (3)

Examines building materials and construction techniques. Topics include a study of soils, concrete, brick, masonry, steel, timber, and plastics and a study of types of building structural systems and components. Principles of interpreting light commercial construction drawings (blueprints) for structural and trade information are also introduced.

68 Contact Hours.

AEC 122 CONSTRUCTION PRACTICES AND DOCUMENTS (2)

Investigates construction practices, specifications, contracts and other legal documents used in the building construction industry. The roles and responsibilities of design and construction team participants are also explored.

45 Contact Hours. Prerequisite or Corequisite: AEC 121.

AEC 123 COMMERCIAL CONSTRUCTION DRAWINGS (4)

Examines the drawing of architectural plans, elevations, sections, details, and schedules. Students produce a portfolio of construction drawings of a multi-story skeleton structure.

90 Contact Hours. Prerequisites: AEC 102 or CAD 224.

AEC 200 BUILDING DESIGN DEVELOPMENT (3)

Acquaints the student with the process of building design development. Factors, which influence and dictate building design, are explored in lecture. Emphasis is placed upon interpretation and application of the building code. Students apply code and program requirements in generating and revising design development drawings of single and mixed occupancy buildings.

68 Contact Hours. Prerequisites: AEC 102

AEC 205 APPLIED STATICS AND STRENGTHS OF MATERIALS (3)

Provides an algebra-based investigation of concepts in statics and strengths of materials. Topics include a study of fundamental mechanical properties of materials, single planar forces, properties of sections, and two-dimensional free body, shear and bending moment diagrams.

68 Contact Hours. Prerequisites: MAT 121 and AEC 121.

AEC 208 BUILDING ENVIRONMENTAL SYSTEMS I (3)

Introduces concepts in operation and design of mechanical and sustainable (green) building systems that provide a healthy, comfortable and productive indoor air environment. Major topics covered include thermal comfort, heat and moisture flow in buildings, indoor air quality, and mechanical (HVAC and solar thermal) systems for climate in buildings.

68 Contact Hours. Prerequisites: AEC 121 and AEC 102.

AEC 215 ELEMENTARY SITE PLANNING (3)

Acquaints the student with basic surveying principles, building site analysis and associated drawings. Emphasizes systems of land survey, topographical analysis, zoning and site requirements, and other factors that influence building site development. Students complete problems in building construction surveying.

68 Contact Hours. Prerequisite: AEC 121. Corequisite: MAT 122.

AEC 216 CONSTRUCTION ESTIMATING (3)

Studies fundamental structural elements and building structures. Building forces, transfer of forces, and structural members and systems are investigated through computation and project work. Fundamental engineering theory related to steel, wood, reinforced concrete and masonry are introduced.

68 Contact Hours. Prerequisites: AEC 101, AEC 121 and CIS 118

AEC 218 SUSTAINABLE BUILDING SYSTEMS (3)

Investigates the technologies and strategies related to sustainable (green) materials and systems for buildings. Topics include: energy and environmental consciousness/regulations; the high performance building envelope; alternative construction techniques (adobe, cob, rammed earth, straw bale); microclimate/site factors; sustainable green materials; and passive solar, active thermal solar, photovoltaic energy, wind energy conversion, on site water use/reuse and waste disposal systems.

68 Contact Hours. Prerequisites: AEC 121

AEC 289 CAPSTONE (3)

Focuses on a demonstrated culmination of learning within a given program of study.

68 Contact Hours. Prerequisites: AEC 121, AEC 122 and AEC 123.

AIR - Air Force ROTC**AIR 101 FOUNDATIONS OF THE U.S. AIR FORCE I (1)**

Introduces students to the U.S. Air Force and the U.S.A.F. officer profession. Uses instructor lectures, films and videos, and group activities to examine Air Force issues, officer qualities, and military customs and courtesies. Examines the communication skills necessary for an Air Force officer.

15 Contact Hours.

AIR 102 FOUNDATIONS OF THE U.S. AIR FORCE (1)

Continues the topics of AIR 101.

15 Contact Hours.

AIR 201 EVOLUTION OF USAF AIR AND SPACE POWER I (1)

Includes airpower, the history of airpower and air doctrine from the World War II to present. The course also examines the role of airpower in the Berlin Airlift, Korean War, Mideast and Vietnam Conflict, as well as the evolution of airpower concepts and doctrine and the development of communicative skills.

15 Contact Hours.

AIR 202 EVOLUTION OF USAF AIR AND SPACE POWER II (1)

Continues the topics discussed in AIR 201.

15 Contact Hours.

ALT - Animal Lab Technology**ALT 126 INTRODUCTION TO LAB ANIMAL SCIENCE (3)**

Provides students with an overview of the field of laboratory animal care in its many manifestations in biomedical and agricultural research and testing and teaching.

45 Contact Hours. Prerequisite: BIO 111

ALT 226 ANIMAL CARE AND MANAGEMENT (3)

Expands and builds on topics covered in Introduction to Laboratory Animal Science. Emphasizes hands on care and management of animals currently used in biomedical research. Course highlights the feeding, breeding, health maintenance, and housing of various species. Focus is placed on the foundation of skills necessary for Certificate in Laboratory Animal Science.

45 Contact Hours. Prerequisite: ALT 126, VET 116, VET 106, HPR 178

ALT 265 ASSISTANT LAT CERTIFICATION EXAM PREPARATION (2)

Prepares students who meet the education and work requirements that qualify them for the Assistant Laboratory Animal Technician certification exam. Students will review skills and knowledge determined by the American Association of Laboratory Animal Science necessary to meet minimum competency.

30 Contact Hours. Prerequisite: None

ALT 266 LAB ANIMAL TECHNICIAN CERTIFICATION EXAM (2)

The basic principles of husbandry, facility management, and animal health and welfare covered in the ALAT preparation will be reinforced as well as advanced techniques. A more detailed understanding of welfare regulations will be emphasized. Note: the work requirements are greater than those set for the LAT exam and students must meet these before enrolling.

30 Contact Hours. Prerequisite: None

See the list of Specialized Animal Laboratory Technology Courses on the first page of this Course Offerings section.

ALT 280 LAB ANIMAL INTERNSHIP (1-12)

Provides students a minimum of 135 hours of work in a biomedical research facility as coordinated by the program. Students work under the immediate supervision of experienced personnel at the institution and with the direct guidance of the instructor. Hours completed will help fulfill AALAS certification work requirements.

45 Contact Hours per credit. Prerequisite: Instructor Approval

ANT - Anthropology**ANT 101 CULTURAL ANTHROPOLOGY (3)**

*(GT-SS3)

Studies human cultural patterns and learned behavior. Includes linguistics, social and political organization, religion, culture and personality, culture change, and applied anthropology.

45 Contact Hours.

ANT 102 CULTURAL ANTHROPOLOGY LAB (1)

*(GT-SS3)

Study the art and science of ethnographic research methods, analyze classic ethnographies, conduct field research projects, write model ethnographies and ethnologies, and address ethical debates and controversies.

15 Contact Hours.

ANT 103 ARCHAEOLOGY LABORATORY (1)

*(GT-SS3)

Studies analytical methods in archaeological research including those employed both in the field and in the laboratory. Deals with practical exercises illustrating many of the theoretical principles of archaeology, including methods of archaeological survey, excavation, artifact analysis, collection strategies, mapping strategies, and field interpretation.

15 Contact Hours.

ANT 104 PHYSICAL ANTHROPOLOGY LABORATORY (1)

*(GT-SS3)

Investigates the principles of physical/biological anthropology. Includes genetic and evolutionary processes, comparative skeletal anatomy, primate morphology and behavior, human evolution, modern human variation, and forensics through laboratory and/or online practicum exercises and analytical discussions.

15 Contact Hours.

ANT 106 ETHNOGRAPHY OF THE DEAF COMMUNITY (3)

Applies ethnographic methods and principles to deaf heritage and community. Focus is on adaptations deaf people use to interact with one another and the hearing world.

45 Contact Hours.

ANT 107 INTRODUCTION TO ARCHAEOLOGY (3)

*(GT-SS3)

Introduces the science of recovering the human prehistoric and historic past through excavation, analysis, and interpretation of material remains. Includes a survey of the archaeology of different areas of the Old and New Worlds. Also includes the works of selected archaeologists and discussions of major archaeological theories.

45 Contact Hours.

ANT 111 PHYSICAL ANTHROPOLOGY (3)

*(GT-SS3)

Studies human biology and its effects on behavior. Includes principles of genetics and evolution, vertebrates and primates, human origins, human variation, and ecology.

45 Contact Hours.

ANT 126 COLORADO ARCHAEOLOGY (3)

Identifies and evaluates distinct prehistoric cultures present in the region now known as Colorado since about 10,000 years ago, using specific archaeological techniques and terminologies.

45 Contact Hours.

ANT 201 INTRODUCTION TO FORENSIC ANTHROPOLOGY (3)

*(GT-SS3)

Studies the basic principles of forensic anthropology, an applied field within the discipline of physical anthropology. Includes the study of the human skeleton, practical application of physical anthropology and archaeology, and judicial procedure, as they relate to the identification of human remains within a medico-legal context.

45 Contact Hours.

ANT 215 INDIANS OF NORTH AMERICA (3)

*(GT-SS3)

Studies the Indians of North America from the origins of native peoples in the New World, through the development of geographic culture areas, to European contact and subsequent contemporary Native American issues.

45 Contact Hours.

ANT 221 EXPLORING OTHER CULTURES I (3)

Provides an anthropological understanding of a selected culture. Areas of study include the culture's language, processes of enculturation, subsistence patterns and economics, kinship and descent, political organization, religion, art, history and its reactions to the forces of globalization.

45 Contact Hours.

ANT 225 ANTHROPOLOGY OF RELIGION (3)

Explores the culturally universal phenomenon of religion. Cross-cultural varieties of beliefs in the supernatural and the religious rituals people employ to interpret and control their worlds are examined.

45 Contact Hours. Prerequisite: None

ANT 250 MEDICAL ANTHROPOLOGY (3)***(GT-SS3)**

Studies the basic principles of medical anthropology, an applied field within the discipline of cultural anthropology. Includes the cross-cultural study of practices and beliefs regarding illness, health, death, prevention and therapy; and the interaction of the medical systems between Western and other cultures.

45 Contact Hours. Prerequisite: ENG 121

ANT 263 ANTHROPOLOGY OF FOLKLORE (3)

This course is a cross-cultural examination of oral traditions and verbal arts and how they reflect and preserve cultural values and worldviews. Various narratives (myths, legends and tales), dramas, poetry and other structural sayings are considered.

45 Contact Hours.

See the list of Specialized Anthropology Courses on the first page of this Course Offerings section.

ANT 280 SOUTHWEST FIELD EXPERIENCE (2)

Introduces the social, religious, economic, and cultural development of selected American Indian societies and Hispanic settlements of the American Southwest. Major ruins, archaeological sites, museums, reservations, and/or pre-statehood communities are explored by field trip.

90 Contact Hours

AQT - Aquaculture**AQT 102 FISH BIOLOGY AND ICHTHYOLOGY (5)**

Introduces the study of fish. Focuses on fish anatomy and physiology, reproduction and development, behavior and activities, nomenclature and taxonomy, and evolution and adaptations. Covers the basic anatomy of fish and their organ systems and includes the laboratory dissection. The course also includes a survey of the important families of fishes with emphasis on species of aqua cultural significance. Students use taxonomic keys to identify individual species and become familiar with life histories and evolutionary adaptations.

113 Contact Hours.

AQT 245 POND MANAGEMENT (4)

Study basic pond management of plants and animals to be able to design, install, and maintain a balanced pond ecosystem. Experience is gained in assessing and managing ponds through fieldwork and classroom instruction.

90 Contact Hours.

ARA - Arabic**ARA 101 CONVERSATIONAL ARABIC I (3)**

Introduces beginning students to conversational Arabic and focuses on understanding and speaking Arabic. Covers basic vocabulary, grammar, and expressions that are used in daily situations and in travel.

45 Contact Hours.

ARA 102 CONVERSATIONAL ARABIC II (3)

Continues the sequence for students who wish to understand and speak Arabic. Covers basic conversational patterns, expressions, and grammar.

45 Contact Hours. Recommended Preparation: ARA 101 or equivalent.

ARA 111 ARABIC LANGUAGE I (5)

Begins a sequence dealing with the development of functional proficiency in listening, speaking, reading and writing the Arabic language.

75 Contact Hours.

ARA 112 ARABIC LANGUAGE II (5)

Continues Arabic Language I in the development of functional proficiency in listening, speaking, reading and writing the Arabic language. Note: The order of the topics and the methodology will vary according to individual texts and instructors.

75 Contact Hours. Recommended Preparation: ARA 111 or equivalent.

ARA 211 ARABIC LANGUAGE III (3)

Continues Arabic I and II in the development of increased functional proficiency in listening, speaking, reading and writing the Arabic language. Note: The order of the topics and the methodology will vary according to individual texts and instructors.

45 Contact Hours. Required Preparation: ARA 112 or equivalent.

ARM - Army ROTC**ARM 111 ADVENTURES IN LEADERSHIP I (2)**

Introduces the fundamentals of leadership and the United States Army. Includes Army leadership doctrine, team-building concepts, time and stress management, and an introduction to cartography and land navigation, marksmanship, briefing techniques, and basic military tactics. Includes lecture and laboratory.

30 Contact Hours.

ARM 112 ADVENTURES IN LEADERSHIP II (2)

Investigates leadership in small organizations. Covers basic troop leading procedures, military first aid and casualty evacuation concepts, creating ethical work climates, an introduction to Army organizations and installations, and basic military tactics. Introduces students to effective military writing styles. Includes lecture and laboratory.

30 Contact Hours. Prerequisite: ARM 111

ARM 211 METHODS OF LEADERSHIP AND MANAGEMENT I (3)

Reviews leadership and management concepts including motivation, attitudes, communication skills, problem solving, human needs and behavior, and leadership self-development. Students refine written and oral communications skills and explore the basic branches of the Army, and officer and NCO duties. Students conduct practical exercises in small unit light infantry tactics and perform as mid-level leaders in the cadet organization. Includes lecture and laboratory.

45 Contact Hours. Prerequisite: ARM 112.

ARM 212 METHODS OF LEADERSHIP AND MANAGEMENT II (3)

Focuses on leadership and management functions in military and corporate environments. Studies various components of Army leadership doctrine to include the four elements of leadership, leadership principles, risk management and planning theory, the be-know-do framework, and the Army leadership evaluation program. Continue to refine communication skills. Includes lecture and laboratory.

45 Contact Hours. Prerequisite: ARM 211

ART - Art**ART 107 ART EDUCATION METHODS (3)**

Focuses on a multimedia approach to teaching art. Emphasizes strong creative presence, philosophy and techniques in drawing, painting, printmaking and other media.

45 Contact Hours.

ART 110 ART APPRECIATION (3)

***(GT-AH1)**

Introduces the cultural significance of the visual arts, including media, processes, techniques, traditions, and terminology.

45 Contact Hours.

ART 111 ART HISTORY ANCIENT TO MEDIEVAL (3)

***(GT-AH1)**

Provides the knowledge base to understand the visual arts, especially as related to Western culture. Surveys the visual arts from the Ancient through the Medieval periods.

45 Contact Hours.

ART 112 ART HISTORY RENAISSANCE TO MODERN (3)

***(GT-AH1)**

Provides the knowledge base to understand the visual arts, especially as related to Western culture. Surveys the visual arts from the Renaissance through the Modern periods.

45 Contact Hours.

ART 113 HISTORY OF PHOTOGRAPHY (3)

Surveys the history of photography from its beginnings to the present. Emphasizes individual photographers who have made significant contributions to the field. Includes technical, artistic, commercial and social development of photography as a form of visual communication.

45 Contact Hours.

ART 117 FIBER DESIGN I (3)

Introduces basic fiber design. Explores basic studies and approaches to fiber design, ranging from the uses of dyes, prints, painting, and threads to an appreciation of the properties of various kinds of fiber and textiles.

90 Contact Hours.

ART 121 DRAWING I (3)

Investigates the various approaches and media that students need to develop drawing skills and visual perception.

90 Contact Hours.

ART 122 DRAWING FOR THE GRAPHIC NOVEL (3)

Introduces the drawing and fine art principles used in developing illustrations for the graphic novel. Students explore the graphic novel as a vehicle for a unique, personal venue for artistic expression. Students explore the history of the graphic novel as well as examine different artistic styles used in the development of graphic novel illustrations. The application of artistic concepts in the creation of an individual graphic work and thorough examination of course material in terms of style, design considerations and visual elements are the primary focus. Students will create images for a graphic novel, focusing on unity of style and techniques for creating images appropriate to story line using black and white or grayscale illustrations. Prerequisite: ART 121

45 Contact Hours.

ART 124 WATERCOLOR I (3)

Provides an introduction to the basic techniques and unique aspects of materials involved in the use of either transparent or opaque water media or both. Color theory is included.

90 Contact Hours. Prerequisite: ART 121 or ART 131

ART 127 LANDSCAPE DRAWING I (3)

Emphasizes nature, particularly landscape. Drawing outside or in view of landscape using graphite, ink, prisma color, pastel, and washes. Students concentrate on various approaches, viewpoints, and styles and acquire expertise and interpretation in a variety of media.

90 Contact Hours. Prerequisite: ART 121 or ART 131

ART 128 FIGURE DRAWING I (3)

Introduces the basic techniques of drawing the human figure.

90 Contact Hours. Prerequisite: ART 121

ART 129 PRINTMAKING I (3)

Introduces the basic techniques and skills of printmaking as a fine art media. Instruction includes an understanding of visual concepts as they relate to prints. May include introduction to relief, intaglio, lithography and screen-printing techniques.

90 Contact Hours.

ART 131 VISUAL CONCEPTS 2-D DESIGN (3)

Examines the basic elements of design, visual perception, and artistic form and composition as they relate to two-dimensional media.

90 Contact Hours.

ART 132 VISUAL CONCEPTS 3-D DESIGN (3)

Focuses on learning to apply the elements and principles of design to three-dimensional problems.

90 Contact Hours.

ART 133 JEWELRY AND METAL WORK I (3)

Introduces the construction of jewelry designs in metals and small casting techniques.

90 Contact Hours.

ART 138 FILM PHOTOGRAPHY I (3)

Introduces black and white photography as a fine art medium and develops skills necessary for basic camera and lab operations.

90 Contact Hours.

ART 139 DIGITAL PHOTOGRAPHY I (3)

Introduces the basic concepts of digital imaging as applied to photography. Using applicable technology and hands on experience, modern developments are presented leading to the present applications of digital imaging which combine traditional photographic ideas with electronic media. Enables the student to learn how to operate image manipulation software using a variety of scanning equipment, software tools and output devices by executing new assignments and applying these technologies to their photographic process.

90 Contact Hours.

ART 140 COLOR PHOTOGRAPHY I (3)

Covers the fundamentals of color photography such as color theory and light, production, processing and printing color negatives.

90 Contact Hours. Prerequisite: ART 138 or ART 139

ART 141 STUDIO PHOTOGRAPHY (3)

Explores the creative uses of studio lighting from the perspective of fine art photography with an emphasis on portraiture, three-dimensional object photography, and two dimensional collage photography.

90 Contact Hours. Prerequisite: ART 138 or ART 139

ART 142 LANDSCAPE PHOTOGRAPHY (3)

Focuses on traditional and contemporary approaches to landscape photography. Examines technical and aesthetic aspects of landscape photography through group discussions, a field study, lectures, and print and slide critiques.

90 Contact Hours. Prerequisite: ART 138 or ART 139

ART 144 PORTRAIT PHOTOGRAPHY (3)

Teaches the technical and aesthetic aspects of studio and location portrait photography. This course explores the personal style of portraiture, history of the field and portraiture as a visual language and creative expression. This topic also includes lighting, composition, posing, and equipment selection.

90 Contact Hours. Prerequisite: ART 138 or ART 139

ART 145 DIGITAL DARKROOM (3)

Teaches computer aided photography and darkroom techniques. The emphasis of this course is image-editing software, which can be used to color correct, retouch and composite photographic images. Other topics include image acquisition, storage, file management, special effects, hard copy and web based image output.

60 Contact Hours. Prerequisite: ART 139

ART 150 DIGITAL ART FOUNDATIONS I (3)

Explores visual problem solving using digital tools for fine art. Students will learn to draw and paint in a variety of artistic modalities using color and grayscale. Two-dimensional to three-dimensional observation exercises in composition will be explored. Students will develop their skills in gesture and contour drawing, painterly expression and artistic elements while using the computer as an art tool. Use of systematic applications for development and presentation of ideas is practiced using vector and raster software. No computer experience is necessary.

90 Contact Hours.

ART 151 PAINTING I (3)

Explores basic techniques, materials, and concepts used in opaque painting processes in oil or acrylic painting to depict form and space on a two-dimensional surface.

90 Contact Hours.

ART 152 LANDSCAPE PAINTING (3)

Focuses on specific landscape concerns in the painting media of the student's choice.

90 Contact Hours. Prerequisite: ART 151

ART 153 PASTEL PAINTING (3)

Approaches the pastel medium in an inventive manner and introduces students to soft pastels and their many approaches to painting with them. Color theory will be taught in practice and application.

90 Contact Hours.

ART 154 FIGURE PAINTING I (3)

Focuses on painting the human figure, and includes a brief survey of figure painting, and instruction in the fundamental methods of composition and expressions.

90 Contact Hours. Prerequisite: ART 128 and ART 151

ART 155 PORTRAITURE (3)

Introduces portrait drawing using various media, such as pencil, charcoal, pastel, and watercolor. Head and hand structures and their individual features and composition (using art elements and principles) are emphasized.

90 Contact Hours. Prerequisite ART 121

ART 161 CERAMICS I (3)

Introduces traditional and contemporary ceramic forms and processes including hand building and throwing on the potter's wheel.

90 Contact Hours.

ART 162 HANDBUILT CLAY I (3)

Provides instruction in several methods of hand building and the study of functional and decorative design elements.

90 Contact Hours.

ART 163 HANDBUILT CLAY II (3)

Provides continued instruction in various methods of hand building.

90 Contact Hours. Prerequisite: ART 162

ART 164 HANDBUILT CLAY III (3)

Covers advanced problems with importance placed on large-scale pieces that promote creativity with techniques and combinations of different textures.

90 Contact Hours. Prerequisite: ART 163

ART 165 SCULPTURE I (3)

Introduces the fundamentals of sculpture such as modeling, casting, carving, and the processes of assemblage.

90 Contact Hours.

ART 166 RAKU (3)

Studies the Japanese art of Raku pottery. Students may hand build or make wheel thrown pots and will be involved in the unique firing process.

90 Contact Hours. Prerequisite: ART 161 or ART 162

ART 167 SCULPTING THE FIGURE (3)

Focuses on sculpting the human figure using modeling techniques in clay.

90 Contact Hours. Prerequisite: None

ART 205 MUSEUM STUDIES (3)

Provides an overview of museum field including curatorial practice. Covers the museum as a business, its history and role in society, and planning and implementation of museum exhibitions.

45 Contact Hours.

ART 207 ART HISTORY - 1900 TO PRESENT (3)

***(GT-AH1)**

Provides students with the knowledge base to understand the visual arts as related to Modern and Contemporary visual art. Surveys world art of the twentieth century, including Modernism to Post-Modernism.

45 Contact Hours.

ART 217 FIBER DESIGN II (3)

Continues instruction in fiber design.

90 Contact Hours. Prerequisite: ART 117

ART 221 DRAWING II (3)

Explores expressive drawing techniques with an emphasis on formal composition, color media and content or thematic development.

90 Contact Hours. Prerequisite: ART 121

ART 222 DRAWING III (3)

Offers a continued study of expressive drawing techniques and development of individual style, with an emphasis on composition and technique variation.

90 Contact Hours. Prerequisite: ART 221

ART 223 DRAWING IV (3)

Explores advanced drawing problems with an emphasis on conceptual development and portfolio and/or exhibition quality presentation.

90 Contact Hours. Prerequisite: ART 222

ART 224 WATERCOLOR II (3)

Continues the study of watercolor techniques, emphasizing original compositions and experimentation with materials. Color theory is included.

90 Contact Hours. Prerequisite: ART 124

ART 225 WATERCOLOR III (3)

Concentrates on the advanced study of subject development, form, color, and theme in watercolor.

90 Contact Hours. Prerequisite: ART 224

ART 226 WATERCOLOR IV (3)

Concentrates on the advanced study of techniques, individual style or expression, and consistency of compositional problem solving in watercolor.

90 Contact Hours. Prerequisite: ART 225

ART 227 LANDSCAPE DRAWING II (3)

Focuses on drawing outdoors or in view of landscape (both rural and inner city) using graphite, ink, washes, pencils, pastels, and watercolor. Students concentrate on various approaches, viewpoints and styles and acquire expertise in a variety of media. Each student presents finished pieces matted for critique.

90 Contact Hours. Prerequisite: ART 127

ART 228 ADVANCED FIGURE DRAWING (3)

Provides continuing study of the various methods of drawing the human figure, with emphasis on the description of form and individual style.

90 Contact Hours. Prerequisite: ART 128

ART 229 PRINTMAKING II (3)

Introduces more advanced techniques and skills of printmaking as a fine art media. Instruction includes an understanding of visual concepts as they relate to prints. May include introduction to relief, intaglio, lithography and screen-printing techniques.

90 Contact Hours. Prerequisite: ART 129

ART 231 ADVANCED 2D DESIGN (3)

Provides continued study of the principles and elements of two-dimensional design with an emphasis on visual communication for further application in fine art, commercial art, and/or applied arts.

90 Contact Hours. Prerequisite: ART 131.

ART 232 ADVANCED 3D DESIGN (3)

Provides continued study of the principles and elements of three-dimensional design with an emphasis on visual communication for further application in fine art, commercial art, and/or applied arts.

90 Contact Hours. Prerequisite: ART 132.

ART 233 JEWELRY AND METAL WORK II (3)

Emphasizes conceptual design development, using casting and specialized techniques.

90 Contact Hours. Prerequisite: ART 133

ART 234 JEWELRY AND METALWORK III (3)

Focuses upon advanced work and emphasizes experimentation with materials and techniques, individual designs, and superior craftsmanship.

90 Contact Hours. Prerequisite: ART 233

ART 235 JEWELRY AND METALWORK IV (3)

Provides continued study of the properties of metal and stone in creating decorative work. Students employ advanced design and techniques to explore original, personal expression. A variety of materials and approaches are used in discovering new and independently creative finished pieces.

90 Contact Hours. Prerequisite: ART 234

ART 238 FILM PHOTOGRAPHY II (3)

This course is a further exploration in film camera and lab operations with an emphasis on individual creativity. Includes the development of a comprehensive portfolio.

90 Contact Hours. Prerequisite: ART 138

ART 239 DIGITAL PHOTOGRAPHY II (3)

Expands upon the beginning digital photography class. Focuses on digital photography in terms of design and communication factors including color, visual design, lighting, graphics, and aesthetics.

90 Contact Hours. Prerequisite: ART 139

ART 240 COLOR PHOTOGRAPHY II (3)

Designed for students who are approaching a personal style and aesthetic in the medium of color photography. It is an extension of Color Photography I. Personal expression is stressed through individual critiques.

90 Contact Hours. Prerequisite: ART 140

ART 241 LARGE FORMAT PHOTOGRAPHY (3)

Introduces the visual aesthetics and techniques of view camera photography. Students receive hands-on photographic experience with the 4x5 view camera, process film, and produce prints.

90 Contact Hours. Prerequisite: ART 138

ART 245 DIGITAL PHOTO STUDIO (3)

Introduces digital photography as a fine art medium, and develops skills necessary for basic operation of a digital camera and production of digital imagery.

90 Contact Hours. Prerequisites: ART 138 and ART 139 or permission of the instructor.

ART 250 DIGITAL ART FOUNDATIONS II (3)

Reviews and further explores the process of generating design utilizing a variety of digital tools. In this course, students will develop their proficiency with the digital tools and learn more advanced techniques in drawing and painting. Students will develop and evaluate their design-oriented projects using the elements and principles. Portfolio development, strong content, and a blending of a variety of computer art applications will be emphasized.

90 Contact Hours. Prerequisite: ART 150

ART 251 PAINTING II (3)

Further explores techniques, materials, and concepts used in opaque painting processes in oil or acrylic painting, with emphasis on composition and content development.

90 Contact Hours. Prerequisite: ART 151

ART 252 PAINTING III (3)

Provides continued exploration of techniques, materials, and concepts used in opaque painting processes in oil or acrylic painting, with emphasis on composition and content development.

90 Contact Hours. Prerequisite: ART 251

ART 253 PAINTING IV (3)

Explores advanced techniques, materials, and concepts used in opaque painting processes, with emphasis on the development of themes and a cohesive body of work.

90 Contact Hours. Prerequisite: ART 252

ART 254 ADVANCED FIGURE PAINTING (3)

Offers continued study of painting the human figure with advanced problem solving in composition and experimentation with materials and techniques.

90 Contact Hours. Prerequisite: ART 154

ART 255 MURAL PAINTING I (3)

Introduces the student to the history, techniques, materials and concepts of mural painting with an emphasis on composition and content development.

90 Contact Hours. Prerequisite ART 151

ART 261 CERAMICS II (3)

A continuation of ART 161, this course emphasizes skill, technique and form.

90 Contact Hours. Prerequisite: ART 161

ART 262 CERAMICS III (3)

Encourages students to develop an individual style of wheel thrown and hand built ceramic forms with continuing involvement in surface treatment.

90 Contact Hours. Prerequisite: ART 261

ART 263 CERAMICS IV (3)

Continues advanced work with emphasis on various clay bodies, unique glazes and engobes, and combining different textures and shapes, and development of personal forms.

90 Contact Hours. Prerequisite: ART 262

ART 265 SCULPTURE II (3)

Develops an understanding and focus on manipulation of three-dimensional form, with greater concentration on individual creativity and style.

90 Contact Hours. Prerequisite: ART 165

ART 266 SCULPTURE III (3)

Focuses on advanced individual sculpture projects, emphasizing experimentation with materials, accomplished technique and conceptual significance.

90 Contact Hours. Prerequisite: ART 265

ASC - Animal Sciences

ASC 100 ANIMAL SCIENCES (3)

Studies the basic fundamentals of livestock production pertaining to principles of breeding, genetics, nutrition, health, and physiology of beef, sheep, swine, dairy, and horses. Focuses on the Animal Science Industry in general and each species industry in regard to history, current situation, and future direction.

45 Contact Hours.

ASE - Auto Service Technology

ASE 101 AUTO SHOP ORIENTATION (2)

Provides students with safety instruction in the shop and on the automobile. Emphasis is placed on the proper use and care of test equipment, precision measuring and machining equipment, gaskets, adhesives, tubing, wiring, jacks, presses and cleaning equipment and techniques.

45 Contact Hours. Prerequisites: minimum assessment scores to enroll in ENG 060, MAT 060, and REA 060.

Recommended Preparation: minimum assessment scores to enroll in ENG 090, MAT 090, and REA 090.

ASE 110 BRAKES I (3)

Covers basic operation of automotive braking systems. Includes operation, diagnosis, and basic repair of disc brakes, drum brakes, and basic hydraulic systems.

68 Contact Hours. Prerequisite: ASE 101 (this course can also be taken concurrently), and minimum assessment scores to enroll in ENG 060, MAT 060, and REA 060.

Recommended Preparation: minimum assessment scores to enroll in ENG 090, MAT 090, and REA 090.

ASE 120 BASIC AUTOMOTIVE ELECTRICITY (2)

Introduces automotive electricity and includes basic electrical theory, circuit designs, and wiring methods. Focuses on multi-meter usage and wiring diagrams.

45 Contact Hours. Prerequisite: ASE 101 (this course can also be taken concurrently), and minimum assessment scores to enroll in ENG 060, MAT 060, and REA 060.

Recommended Preparation: minimum assessment scores to enroll in ENG 090, MAT 090, and REA 090.

ASE 123 BATTERY, STARTING AND CHARGING SYSTEMS (2)

Covers the operation, testing, and servicing of vehicle battery, starting, and charging systems. Includes voltage and amperage testing of starter and generator, load testing and maintenance of a battery, and starter and generator overhaul.

45 Contact Hours. Prerequisites: ASE 101 and ASE 120 (these courses can also be taken concurrently) and minimum assessment scores to enroll in ENG 060, MAT 060, and REA 060.

Recommended Preparation: minimum assessment scores to enroll in ENG 090, MAT 090, and REA 090.

ASE 130 GENERAL ENGINE DIAGNOSIS (2)

Focuses on lecture and related laboratory experiences in the diagnosis and necessary corrective actions of automotive engine performance factors.

45 Contact Hours. Prerequisite: ASE 101 (this course can also be taken concurrently), and minimum assessment scores to enroll in ENG 060, MAT 060, and REA 060.

Recommended Preparation: minimum assessment scores to enroll in ENG 090, MAT 090, and REA 090.

ASE 132 IGNITION SYSTEM DIAGNOSIS AND REPAIR (2)

Focuses on lecture and related laboratory experiences in the diagnosis, service, adjustments and repair of various automotive ignition systems.

45 Contact Hours. Prerequisites: ASE 101, ASE 120, and ASE 123 (these courses can also be taken concurrently), and minimum assessment scores to enroll in ENG 060, MAT 060, and REA 060.

Recommended Preparation: minimum assessment scores to enroll in ENG 090, MAT 090, and REA 090.

ASE 134 AUTOMOTIVE EMISSIONS (2)

Focuses on lecture and laboratory experiences in the diagnosis and repair of automotive emission control systems.

45 Contact Hours. Prerequisite: ASE 101 (this course can also be taken concurrently), ASE 120, ASE 123, ASE 132 and minimum assessment scores to enroll in ENG 060, MAT 060, and REA 060.

Recommended Preparation: minimum assessment scores to enroll in ENG 090, MAT 090, and REA 090.

ASE 140 SUSPENSION AND STEERING I (3)

Focuses on lecture and related experiences in the diagnosis and service of suspensions and steering systems and their components.

68 Contact Hours. Prerequisite: ASE 101 (this course can also be taken concurrently), and minimum assessment scores to enroll in ENG 060, MAT 060, and REA 060.

Recommended Preparation: minimum assessment scores to enroll in ENG 090, MAT 090, and REA 090.

ASE 150 AUTOMOTIVE U-JOINT AND AXLE SHAFT SERVICE (2)

Studies the operating principles and repair procedures relating to axle-shaft and universal joints.

45 Contact Hours. Prerequisite: ASE 101 (this course can also be taken concurrently), and minimum assessment scores to enroll in ENG 060, MAT 060, and REA 060.

Recommended Preparation: minimum assessment scores to enroll in ENG 090, MAT 090, and REA 090.

ASE 151 AUTOMOTIVE MANUAL TRANSMISSION/TRANSAXLES AND CLUTCHES (2)

Focuses on lecture and related laboratory experiences in the diagnosis and repair of automotive manual transmissions, transaxles and clutches and related components.

45 Contact Hours. Prerequisite: ASE 101 (this course can also be taken concurrently), and minimum assessment scores to enroll in ENG 060, MAT 060, and REA 060.

Recommended Preparation: minimum assessment scores to enroll in ENG 090, MAT 090, and REA 090.

ASE 152 DIFFERENTIALS AND 4WD/AWD SERVICE (2)

Focuses on lecture and related laboratory experiences in the diagnosis and repair of automotive differentials, four wheel and all wheel drive units.

45 Contact Hours. Prerequisite: ASE 101, ASE 151 (these courses can also be taken concurrently) and minimum assessment scores to enroll in ENG 060, MAT 060, and REA 060.

Recommended Preparation: minimum assessment scores to enroll in ENG 090, MAT 090, and REA 090.

ASE 160 AUTOMOTIVE ENGINE REMOVAL AND INSTALLATION (1)

Focuses on lecture and laboratory experiences in the removal and installation procedures of the automotive engine from and into front wheel and rear wheel drive vehicles.

23 Contact Hours. Prerequisite: ASE 101 (this course can also be taken concurrently), and minimum assessment scores to enroll in ENG 060, MAT 060, and REA 060.

Recommended Preparation: minimum assessment scores to enroll in ENG 090, MAT 090, and REA 090.

ASE 161 ENGINE, DISASSEMBLY DIAGNOSIS AND ASSEMBLY (5)

Focuses on lecture and laboratory experiences in the disassembly, diagnosis and reassembly of the automotive engine. Topics include the diagnostic and repair procedures for the engine block and head assemblies.

113 Contact Hours. Prerequisite: ASE 101 (this course can also be taken concurrently), and minimum assessment scores to enroll in ENG 060, MAT 060, and REA 060.

Recommended Preparation: minimum assessment scores to enroll in ENG 090, MAT 090, and REA 090.

ASE 210 BRAKES II (3)

Covers the operation and theory of the modern automotive braking systems. Includes operation, diagnosis, service, and repair of the anti-lock braking systems, power assist units and machine operations of today's automobile.

68 Contact Hours. Prerequisites: ASE 101 and ASE 110 (these courses can also be taken concurrently), and minimum assessment scores to enroll in ENG 060, MAT 060, and REA 060.

Recommended Preparation: minimum assessment scores to enroll in ENG 090, MAT 090, and REA 090.

ASE 220 SPECIALIZED ELECTRONICS TRAINING (2)

Provides a systematic approach to automotive electrical systems. Builds from the basic electrical principles and concepts through semiconductors and microprocessors. Features on-bench exercises. Students practice diagnostic procedures that have applications to present and future automotive electronics and electrical systems.

45 Contact Hours. Prerequisite: ASE 101, ASE 120, ASE 123 and minimum assessment scores to enroll in ENG 060, MAT 060, and REA 060.

Recommended Preparation: minimum assessment scores to enroll in ENG 090, MAT 090, and REA 090.

ASE 221 AUTO/DIESEL BODY ELECTRICAL (4)

Provides a comprehensive study of the theory, operation, diagnosis, and repair of vehicle accessories.

90 Contact Hours. Prerequisite: ASE 101, ASE 120, ASE 123, ASE 132 (these courses can also be taken concurrently) and minimum assessment scores to enroll in ENG 060, MAT 060, and REA 060.

Recommended Preparation: minimum assessment scores to enroll in ENG 090, MAT 090, and REA 090.

ASE 231 AUTO/DIESEL COMPUTERS (2)

Focuses on lecture and laboratory experiences in the inspection and testing of typical computerized engine control systems.

45 Contact Hours. Prerequisites: ASE 101, ASE 120, ASE 123, ASE 132, ASE 134 and minimum assessment scores to enroll in ENG 060, MAT 060, and REA 060.

Recommended Preparation: minimum assessment scores to enroll in ENG 090, MAT 090, and REA 090.

ASE 233 FUEL INJECTION AND EXHAUST SYSTEMS (4)

Focuses on lecture and related laboratory experiences in the diagnosis and repair of electronic fuel injection systems and modern exhaust systems.

90 Contact Hours. Prerequisites: ASE 101, ASE 120, ASE 123, ASE 132, ASE 134 (these courses can also be taken concurrently) and minimum assessment scores to enroll in ENG 060, MAT 060, and REA 060.

Recommended Preparation: minimum assessment scores to enroll in ENG 090, MAT 090, and REA 090.

ASE 235 DRIVABILITY DIAGNOSIS (1)

Emphasizes lecture and related laboratory experience in diagnostic techniques and the use of diagnostic scan tools, oscilloscopes, lab scopes, multi-meters and gas analyzers. Students diagnose live vehicle drive-ability problems.

23 Contact Hours. Prerequisite: ASE 101, ASE 120, ASE 123, ASE 132, ASE 134, ASE 233 and minimum assessment scores to enroll in ENG 060, MAT 060, and REA 060.

Recommended Preparation: minimum assessment scores to enroll in ENG 090, MAT 090, and REA 090.

ASE 236 ADVANCED DRIVABILITY DIAGNOSIS/REPAIR (4)

Focuses on lecture and laboratory experiences in the inspection, testing and repair of typical computerized engine control systems on customer vehicles.

90 Contact Hours. Prerequisite: ASE 101, ASE 120, ASE 123, ASE 132, ASE 134, ASE 235 or permission of instructor. Westminster Only.

Prerequisites: minimum assessment scores to enroll in ENG 060, MAT 060, and REA 060. Recommended Preparation: minimum assessment scores to enroll in ENG 090, MAT 090, and REA 090.

ASE 240 SUSPENSION AND STEERING II (3)

Emphasizes lecture and related experiences in the diagnosis and service of electronic suspensions and steering systems and their components.

68 Contact Hours. Prerequisite: ASE 101, ASE 110, ASE 140 (these courses can also be taken concurrently) and minimum assessment scores to enroll in ENG 060, MAT 060, and REA 060.

Recommended Preparation: minimum assessment scores to enroll in ENG 090, MAT 090, and REA 090.

ASE 250 AUTOMATIC TRANSMISSION/TRANSAXLE SERVICE (1)

Focuses on practical methods of maintaining, servicing, and performing minor adjustments on an automatic transmission and transaxle.

23 Contact Hours. Prerequisite: ASE 101 (this course can also be taken concurrently), and minimum assessment scores to enroll in ENG 060, MAT 060, and REA 060.

Recommended Preparation: minimum assessment scores to enroll in ENG 090, MAT 090, and REA 090.

ASE 251 AUTOMATIC TRANSMISSION/TRANSAXLE DIAGNOSIS AND ASSEMBLIES (5)

Covers diagnosis, principles of hydraulics, principles of electronic components, power flow, theory of operation, removal of transmission/transaxle, tear down, replacement of components, measurement and subsequent adjustment of components and replacement of transmission/transaxle.

113 Contact Hours. Prerequisite: ASE 101, and minimum assessment scores to enroll in ENG 060, MAT 060, and REA 060.

Recommended Preparation: minimum assessment scores to enroll in ENG 090, MAT 090, and REA 090.

ASE 252 ADVANCED AUTOMATIC TRANSMISSIONS/TRANSAXLES (2)

Provides laboratory experiences with a variety of customer work in the areas that the student received training during previous automotive transmission classes.

45 Contact Hours. Prerequisite: ASE 101, ASE 251 and minimum assessment scores to enroll in ENG 060, MAT 060, and REA 060.

Recommended Preparation: minimum assessment scores to enroll in ENG 090, MAT 090, and REA 090.

ASE 260 ADVANCED ENGINE DIAGNOSIS (2)

Focuses on lecture and related laboratory experiences in the diagnosis and necessary corrective actions of automotive engine performance factors related to customer vehicles.

45 Contact Hours. Prerequisite: ASE 101, ASE 161 and minimum assessment scores to enroll in ENG 060, MAT 060, and REA 060.

Recommended Preparation: minimum assessment scores to enroll in ENG 090, MAT 090, and REA 090.

ASE 265 HEATING AND AIR CONDITIONING (5)

Emphasizes lecture and related laboratory experiences in the diagnosis and service of vehicle heating and air conditioning systems and their components.

113 Contact Hours. Prerequisite: ASE 101, ASE 120 and minimum assessment scores to enroll in ENG 060, MAT 060, and REA 060.

Recommended Preparation: minimum assessment scores to enroll in ENG 090, MAT 090, and REA 090.

See the list of Specialized Auto Service Technology Courses on the first page of this Course Offerings section.

ASE 285 INDEPENDENT STUDY (1-6)

Meets the individual needs of students. Students engage in intensive study or research under the direction of a qualified instructor.

30 Contact Hours per credit.

ASL - American Sign Language**ASL 101 BASIC SIGN LANGUAGE I (3)**

Provides students with the basic knowledge of communicating with the Deaf community. Students will develop basic vocabulary and conversational skills and will be introduced to aspects of the Deaf culture and community.

45 Contact Hours. Note: The course does not meet the ASL requirement for admission to the Interpreter Preparation program.

ASL 102 BASIC SIGN LANGUAGE II (3)

Continues the sequence for students who want to learn basic conversational patterns to communicate with the Deaf community. The material covers basic vocabulary and

conversational skills, and aspects of the Deaf culture and community.

45 Contact Hours. Prerequisite: ASL 101. Note: The course does not meet the ASL requirement for admission to the Interpreter Preparation program.

ASL 121 AMERICAN SIGN LANGUAGE I (5)

Exposes the student to American Sign Language. Readiness activities are conducted focusing on visual/receptive skills and basic communication. Utilizes the direct experience method.

75 Contact Hours. Note: Students must complete this course with a grade of B or higher or pass the ASL proficiency test with a score of at least 80% or better prior to registering for ASL 122 if planning to enroll in the Interpreter Preparation program.

ASL 122 AMERICAN SIGN LANGUAGE II (5)

Develops a basic syntactic knowledge of American Sign Language (ASL), basic vocabulary and basic conversational skills. Incorporates vital aspects of Deaf culture and community. The direct experience method is used to enhance the learning process.

75 Contact Hours. Prerequisite: ASL 121. Note: Students must complete this course with a grade of B or higher or pass the ASL 121, ASL 122 proficiency test at 80% or better prior to acceptance into the Interpreting and Transliterating Preparation program.

ASL 123 AMERICAN SIGN LANGUAGE III (5)

Provides the student an opportunity to develop a stronger grasp of American Sign Language (ASL), as well as the cultural features of the language. ASL vocabulary is also increased. The direct experience method is used to further enhance the learning process. This course is a continuation of ASL 122 with more emphasis on expressive skills in signing.

75 Contact Hours. Prerequisite: ASL 122.

ASL 125 FINGERSPELLING (3)

Provides the student an opportunity to develop expressive and receptive finger spelling through various class activities.

45 Contact Hours. Prerequisite: ASL 122.

Note: students must earn a grade of C or above to continue in the IPP Program.

ASL 221 AMERICAN SIGN LANGUAGE IV (3)

Continues from ASL 123 to provide further study of American Sign Language (ASL) and its grammar, syntax and cultural features. Helps students develop competency and fluency in the language. Variations in ASL are addressed.

45 Contact Hours. Prerequisites: ASL 123 and ASL 125. Corequisite: IPP 122 unless this class has already been taken.

ASL 222 AMERICAN SIGN LANGUAGE V (3)

Continues ASL 221 with focus on assimilating previously acquired skills and knowledge and increase proficiency in understanding and using American Sign Language (ASL). Addresses debates in ASL.

45 Contact Hours. Prerequisite: ASL 221.

ASL 244 ASL LINGUISTICS (3)

Investigates the structural properties of ASL including phonology, morphology, syntax, semantics, and discourse with a focus on how visual languages differ and are similar to spoken languages.

45 Contact Hours.

AST - Astronomy

AST 101 ASTRONOMY I (4)

*(GT-SC1)

Focuses on basic phenomena and motions of the sky, such as seasons and phases of the moon, as well as the nature of light and matter and the contents of the solar system including the planets, moons, asteroids, and comets. Incorporates laboratory experience.

Prerequisite: MAT 090 with a grade of C or better. 75 Contact Hours. 45 lecture hours, 30 lab hours.

AST 102 ASTRONOMY II WITH LAB (4)

*(GT-SC1)

Emphasizes the structure and life cycle of the stars, the sun, galaxies, and the universe as a whole, including cosmology and relativity. Incorporates laboratory experience.

75 Contact Hours. 45 lecture hours, 30 lab hours. Prerequisite: MAT 090 with a grade of "C" or better or appropriate diagnostic scores.

AST 275 SPECIAL TOPICS (1-12)

Provides students with a vehicle to pursue in depth exploration of special topics of interest.

15 Contact Hours per credit.

AUT - Auto Motorsports Technology

AUT 109 HIGH PERFORMANCE SUSPENSION AND CHASSIS DESIGN (2)

(Larimer Only)

Introduces the fundamentals of chassis types and components. Includes steering and suspension component theory, tire and wheel theory, chassis design and geometry theory as applied to oval track, drag race, and road race vehicles.

45 Contact Hours. Prerequisite: ASE 101, ASE 140, ASE 240 and appropriate assessment scores or a grade of C or better in ENG 060, MAT 060, and REA 060.

Recommended Preparation: ENG 090, MAT 090, and REA 090.

AUT 119 HIGH PERFORMANCE ELECTRICAL AND FUEL (2)

(Larimer Only)

Introduces electrical and fuel systems as applied to racing vehicles. Includes carburetion, fuel injection, fuel pumps, fuel cells, ignition systems, switches, and wiring.

45 Contact Hours. Prerequisite: ASE 101, ASE 220, ASE 233 and appropriate assessment scores or a grade of C or better in ENG 060, MAT 060, and REA 060.

Recommended Preparation: ENG 090, MAT 090, and REA 090.

BIO - Biology

BIO 105 SCIENCE OF BIOLOGY WITH LAB (4)

*(GT-SC1)

(Cannot be applied toward A.S. Degree)

Examines the basis of biology in the modern world and surveys the current knowledge and conceptual framework of the discipline. Explores biology as a science - a process of gaining new knowledge - as well as the impact of biological science on society. Includes laboratory experiences. Designed for non-science majors.

90 Contact Hours (45 lecture hours, 45 lab hours).

BIO 106 BASIC ANATOMY AND PHYSIOLOGY (4)

Focuses on basic knowledge of body structures and function, and provides a foundation for understanding deviations from normal and disease conditions. This course is designed for individuals interested in health care and is directly applicable to the Practical Nursing Program and the Medical Office Technology program.

60 Contact Hours. High school biology and chemistry recommended.

BIO 111 GENERAL COLLEGE BIOLOGY I WITH LAB (5)

*(GT-SC1)

Examines the fundamental molecular, cellular and genetic principles characterizing plants and animals. Includes cell structure and function, and the metabolic processes of respiration, and photosynthesis, as well as cell reproduction and basic concepts of heredity. The course includes laboratory experience.

90 Contact Hours (60 lecture hours, 30 lab hours). High school biology and chemistry recommended.

BIO 112 GENERAL COLLEGE BIOLOGY II WITH LAB (5)

*(GT-SC1)

A continuation of General College Biology I. Includes ecology, evolution, classification, structure, and function in plants and animals. This course includes laboratory experience.

90 Contact Hours (60 lecture hours, 30 lab hours). Prerequisite: BIO 111.

BIO 115 HUMAN GENETICS (3)

Focuses on a study of the inheritance of human traits. It is a non-mathematical study for the non-science major. Includes Mendelian, non-Mendelian, sex-linked, blood type traits, inherited diseases and ethics.

45 Contact Hours.

BIO 201 HUMAN ANATOMY AND PHYSIOLOGY I WITH LAB (4)

*(GT-SC1)

Focuses on an integrated study of the human body including the histology, anatomy, and physiology of each system. Examines molecular, cellular, and tissue levels of organization plus integuments, skeletal, articulations, muscular, nervous systems and special senses. Includes a mandatory hands-on laboratory experience covering experimentation, microscopy, observations, and dissection. This is the first semester of a two-semester sequence.

90 Contact Hours (45 lecture hours, 45 lab hours). Prerequisite: BIO 111 or a passing grade on the science placement test.

BIO 202 HUMAN ANATOMY AND PHYSIOLOGY II WITH LAB (4)

*(GT-SC1)

Focuses on the integrated study of the human body and the histology, anatomy, and physiology of the following systems and topics: endocrine, cardiovascular, hematology, lymphatic and immune, urinary, fluid and electrolyte control, digestive, nutrition, respiratory, reproductive, and development. Includes a mandatory hands-on laboratory experience involving experimentation, microscopy, observations, and dissection. This is the second semester of a two-semester sequence.

90 Contact Hours (45 lecture hours, 45 lab hours). Prerequisite: BIO 201.

BIO 203 ADVANCED HUMAN ANATOMY (2)

Examines the gross anatomical structure of the human body and the relationship between form and function. Students will

prosect a human cadaver. Systems covered will include integument, digestive, respiratory, skeletal, muscular, reproductive, endocrine, lymphatic, urinary, nervous and cardiovascular. This is a course designed for allied health, education, biology and other students who wish to obtain advanced knowledge of human anatomy. Requires hands-on laboratory experience.

60 Lab Hours. Prerequisite: A or B in BIO 201 and BIO 202, and permission of instructor.

BIO 204 MICROBIOLOGY WITH LAB (4)

*(GT-SC1)

Designed for health science majors. Examines microorganisms with an emphasis on their structure, development, physiology, classification, and identification. The laboratory experience includes culturing, identifying, and controlling microorganisms with an emphasis on their role in infectious disease.

90 Contact Hours (45 lecture hours, 45 lab hours). Prerequisite: BIO 111 or a passing grade on the science placement test.

BIO 208 GENERAL COLLEGE MICROBIOLOGY WITH LAB (5)

*(GT-SC1)

Designed for biology and health science majors. Surveys microorganisms with an emphasis on their structure, development, physiology, classification, and identification. Includes microbial diversity, functional anatomy, biochemistry, genetics, ecology, and disease. Mandatory hands-on laboratory experience covers sterile technique, microscopy, culture procedures, and biochemical and genetic analysis.

90 Contact Hours (60 lecture hours, 30 lab hours). Prerequisite: BIO 111 or a passing grade on the science placement test.

BIO 216 PATHOPHYSIOLOGY (4)

Focuses on the alterations in physiological, cellular, and biochemical processes, the associated homeostatic responses, and the manifestations of disease. Prior knowledge of cellular biology, anatomy, and physiology is essential for the study of pathophysiology.

60 Contact Hours. Prerequisite: BIO 201 and BIO 202.

BIO 221 BOTANY WITH LAB (5)

*(GT-SC1)

This course is designed for biology majors. It is a study of nonvascular and vascular plants. It emphasizes photosynthetic pathways, form and function, reproduction, physiology, genetics, diversity, evolution, ecology. Requires mandatory hands-on laboratory and field experience.

90 Contact Hours (60 lecture hours, 30 lab hours).

BIO 222 GENERAL COLLEGE ECOLOGY WITH LAB (4)

Studies the interrelationships between organisms and their environment. Covers composition and function of aquatic and terrestrial ecosystems, population biology, pollution and the effects of man on ecosystems. Includes laboratory and field experiences.

90 Contact Hours (45 lecture hours, 45 lab hours). Prerequisites: BIO 111 and BIO 112 or equivalent.

BUS - Business**BUS 102 ENTREPRENEURIAL OPERATIONS (3)**

Covers the major aspects of small business management to enable the entrepreneur to successfully begin his/her own

business. This course provides the basic concepts of marketing, principles of management and finance needed to manage a small business. Further it develops the business plan and suggests methods of obtaining the financing required to launch the business.

45 Contact Hours.

BUS 110 WORKING FOR YOURSELF (2)

Introduces small business start-up and offers practical training designed to provide students with a fundamental understanding of the special concerns of self-employment. The course also provides an overview of the subjects needed to become an entrepreneur, including financing, law, insurance, government regulations, record keeping, and taxes. Guest speakers with expertise in the various topics add to the weekly discussion.

30 Contact Hours.

BUS 115 INTRODUCTION TO BUSINESS (3)

Focuses on the operation of the American Business System. Covers fundamentals of the economy, careers and opportunities, marketing, management, production, governmental regulations, tools of business and social responsibilities.

45 Contact Hours.

BUS 116 PERSONAL FINANCE (3)

Surveys the basic personal financial needs of most individuals. Emphasizes the basics of budgeting and buying, saving and borrowing money, the intricacies of home ownership, income tax and investments, and the wise use of insurance, wills and trusts.

45 Contact Hours.

BUS 120 INTRODUCTION TO E-COMMERCE (3)

Provides an introduction to electronic commerce—business trend of the future. Covers definition of e-commerce, technology and software requirements, security issues, electronic payment and marketing strategies. Focuses on what to expect when creating a dot-com, as well as the business-to-business use of e-commerce.

45 Contact Hours.

BUS 203 INTRODUCTION TO INTERNATIONAL BUSINESS (3)

Provides students with an understanding of the interdisciplinary nature of international business. The course covers the development of international business; theories and methods of international trade; financing mechanisms and terms used in export documentation and export finance; the effects of economics, political and cultural environment on international business and trade; impact of geography in business transactions; legal aspects of international business; and developing an effective international marketing strategy.

45 Contact Hours.

BUS 216 LEGAL ENVIRONMENT OF BUSINESS (3)

Emphasizes public law, regulation of business, ethical considerations, and various relationships existing within society, government, and business. Specific attention is devoted to economic regulation, social regulation, regulation and laws impacting labor-management issues, and environmental concerns. Students develop an understanding of the role of law in social, political, and economic change.

45 Contact Hours.

BUS 217 BUSINESS COMMUNICATION AND REPORT WRITING (3)

Emphasizes effective business writing and covers letters, memoranda, reports, application letters, and resumes. Includes the fundamentals of business communication and an introduction to international communication.

45 Contact Hours. Recommended Preparation: ENG 090.

BUS 226 BUSINESS STATISTICS (3)

Focuses on statistical study, descriptive statistics, probability, and the binomial distribution, index numbers, time series, decision theory, confidence intervals, linear regression, and correlation. Intended for the business major.

45 Contact Hours. Prerequisite: MAT 099.

BUS 281 INTERNSHIP (1-12)

Provides continued instruction and the opportunity for students to supplement coursework with practical work experience related to their educational program. Students work under the immediate supervision of experienced personnel at the business locations and with the direct guidance of the instructor.

45 Contact Hours per credit. Prerequisite: BUS 115.

BUS 289 CAPSTONE (1-6)

Demonstrates the culmination of learning within a given program of study.

15-90 Contact Hours. Prerequisite: BUS 115 and BUS 217

CAD - Computer-Aided Drafting

CAD 100 PRINT READING FOR CAD (3)

Covers linetype identification, use of lineweights, file management, prototype/template creation using the latest release of AutoCAD. Interpretation of industry standards in dimensioning, symbology, drawing notes, freehand sketching and reading working drawings. Industries discussed in this course are architectural, engineering, design related, civil/survey, manufacturing, HVAC, and welding.

68 Contact Hours.

CAD 101 COMPUTER-AIDED DRAFTING I (3)

Focuses on basic computer aided drafting skills using the latest release of the AutoCAD software. Includes file management, Cartesian coordinate system & dynamic input, drawing templates, drawing aids, linetype and lineweights, layer usage, drawing & editing geometric objects, polylines & splines, array, text applications, creating tables, basic dimensioning, and Help access.

68 Contact Hours. Recommended Preparation: CAD 100 & AEC 101, or EGT 101, or EGT 143

CAD 102 COMPUTER-AIDED DRAFTING II (3)

Focuses on intermediate to advanced computer aided drafting skills using the latest release of the AutoCAD software. Includes blocks, wblocks & dynamic blocks, hatching, isometric drawings, advanced dimensioning and dimension variables, layouts, paper space and viewports, templates, external references, attributes, raster images, sheet sets and printing/plotting.

68 Contact Hours. Recommended Preparation: CAD 101

CAD 105 AUTOCAD FOR INTERIORS (4)

Provides an opportunity for the Interior Design student to obtain the basic skills necessary to operate Computer Aided Design (CAD) software. AutoCAD software is emphasized.

90 Contact Hours. Recommended Preparation: CAD 100 & AEC 101, or EGT 101 or EGT 143

CAD 115 SKETCHUP (3)

Focuses on the understanding of basic concepts of the software program Google SketchUp®. Students will learn how to draw and extrude building shapes, stairs, roofs, and interiors utilizing advanced modeling techniques.

68 Contact Hours.

CAD 153 INTRODUCTION TO PRO ENGINEER/BASICS (3)

Introduces basic Pro/Engineer software operation including part creation, drawing creation, and assembly creation. Pro/Engineer is a 3D solid modeling software from parametric technologies.

68 Contact Hours.

CAD 201 COMPUTER-AIDED DRAFTING/CUSTOM (3)

Focuses on program customization using the latest release of CAD software. Includes customizing menus, customizing toolbars, attribute extraction, basic CAD programming, advanced dimensioning, path options, script files, and slide shows.

68 Contact Hours. Prerequisite: CAD 102

CAD 202 COMPUTER-AIDED DRAFTING/3D (3)

Focuses on construction of three-dimensional objects using the latest release of CAD software. Includes wire frame construction, surface modeling, solid modeling, extrusions, Boolean operations, 3D editing, 3D views, rendering, and 3D to 2D construction.

68 Contact Hours. Prerequisite: CAD 102

CAD 216 ADVANCED GOOGLE SKETCHUP (3)

This course focuses on advanced concepts and workflow of Google SketchUp Pro. Students will learn to utilize SketchUp Pro with clear language, focusing their skills on learning aids, evaluation and assessment tools, resources such as other rendering software programs, and third party add-ons to be used within SketchUp Pro. Students will learn to utilize and focus on photo realization and manipulation, and their relationships between Google SketchUp Pro, Google Earth and Google Layout.

68 Contact Hours. Prerequisite: CAD 115

CAD 219 3D/MAX (3)

Introduces 3D model creation and editing, rendering and animation using the Autodesk 3D Max software. Focuses on 3D geometry, texture mapping, lighting, camera placement, shading, photo-realistic rendering, animation techniques, and walk through animations.

68 Contact Hours. Prerequisite: CAD 102

CAD 220 3D/MAX ADVANCED (3)

Focuses on advanced 3D geometry and character construction, animation and rendering techniques using Autodesk 3D Max software. Emphasis will include 3D geometry manipulation, character/bone/biped constructions, animation and video post-production of 3D animations.

68 Contact Hours. Prerequisite: CAD 219

CAD 222 NAVISWORKS/AUTODESK (3)

Introduces students to the BIM management software Autodesk Navisworks. Multiple BIM models will be combined for the purposes of scheduling and clash detection.

68 Contact Hours. Prerequisite: CAD 224

CAD 224 REVIT ARCHITECTURE (3)

Introduces students to the AutoDesk Revit Architecture software. Examines the Building Information Modeling approach to 2D and 3D architectural construction documents. Students will create floorplans, elevations, sections, 3D models, perspective renderings and animations with this software application.

68 Contact Hours. Recommended preparation: AEC 102 and CAD 102

CAD 225 AUTOCAD ARCHITECTURE (3)

Provides students with the software application training in Architectural construction drawings using industry standard software. Includes creating floorplans, sections, elevations and details necessary to produce 2D and 3D Architectural construction drawings.

68 Contact Hours. Recommended preparation: AEC 102 and CAD 102

CAD 227 ADVANCED REVIT ARCHITECTURE (3)

Focuses on the advanced applications of the AutoDesk Revit Architecture software. Includes Family Editing, Topographic Site Plans, Worksharing, Phases, Advanced Scheduling, Custom Annotation, and Presentation Techniques.

68 Contact Hours. Prerequisites: CAD 224

CAD 228 STEEL DETAILING (SDS/2) (3)

Introduces students to the world of steel fabrication through 3D parametrics. A small steel structure is completed using step-by-step instructions including 3D modeling, creating solids, sheet setups for automatic detailing, bill of material creation and plotting.

68 Contact Hours. Prerequisites: AEC 241 & CAD 202

CAD 229 REVIT STRUCTURE (3)

Introduces students to structural steel modeling and building information modeling (BIM). A steel structure is completed using Revit's design tools of parametric modeling. Foundation and framing systems, elevator shafts, stairs and ramps will be covered. Drawing annotation will include details and schedules. Final drawing sheets will be generated and plotted.

68 Contact Hours. Prerequisite: AEC 123

CAD 233 CIVIL 3D/AUTODESK (3)

Provides students with the basics to advanced software application necessary to produce 3D Civil models and 2D drawings using the latest release of the Civil 3D software. This course will cover topics including components and program interface, linework, geometry, 2D to 3D Civil CAD applications.

68 Contact Hours. Recommended Preparation: CAD 202 & EGT 143

CAD 240 INVENTOR I/AUTODESK (3)

Introduces basic non-parametric 3D concepts to build confidence in 3D thinking and moves on to three-dimensional parameters. The student learns to construct, modify, and manage complex parts in 3D space as well as how to produce 2D drawings from the 3D models.

68 Contact Hours. Recommended preparation: EGT 101

CAD 244 ADVANCED INVENTOR (3)

This course focuses on the advanced applications of the parametric software Inventor. Includes management of design data, advanced assembly and analysis of model creations and constraints, documentation of bill of materials and parts lists, rendering and animation and testing a model assembly.

68 Contact Hours. Prerequisite: CAD 240

CAD 255 SOLIDWORKS/MECHANICAL (3)

Introduces basic non-parametric 3D concepts to build confidence in 3D thinking and progresses to three-dimensional parameters. The student learns to construct, modify, and manage complex parts in 3D space as well as to produce 2D drawings from the 3D models.

68 Contact Hours. Recommended Preparation: EGT 101

CAD 259 ADVANCED SOLIDWORKS (3)

This course focuses on the advanced applications of parametric software Solidworks. Includes management of design data, advanced assembly and analysis of model creations and constraints, documentation of bill of materials and parts lists, rendering and animation and testing a model assembly.

68 Contact Hours. Prerequisite: CAD 255

See the list of Specialized Computer-Aided Drafting Courses on the first page of this Course Offerings section.

CAD 289 CAPSTONE (1-6)

A demonstrated culmination of learning within a given program of study.

15-45 Contact Hours per credit. Prerequisite: CAD 201, CAD 202, & CAD 219.
Recommended Preparation: CAD 224, CAD 240, or CAD 255

CAR - Carpentry**CAR 133 CONSTRUCTION FRAMING AND SAFETY (4)**

Utilizes hands-on techniques to illustrate basic framing methods and materials. Floor/Wall/and Roof framing will be discussed/demonstrated and taught. There will be extensive utilization of modern and western residential framing methods. The course will also include 10 hours of OSHA approved safety instruction, which will qualify the student for their 10-hour safety card.

90 Contact Hours.

CHE - Chemistry**CHE 101 INTRODUCTION TO CHEMISTRY I WITH LAB(5)**

*(GT-SC1)

(CANNOT BE APPLIED TOWARD A.S. DEGREE)

Includes the study of measurements, atomic theory, chemical bonding, nomenclature, stoichiometry, solutions, acid and base, gas laws, and condensed states. Laboratory experiments demonstrate the above concepts qualitatively and quantitatively. Designed for non-science majors, students in occupational and health programs, or students with no chemistry background.

90 Contact Hours (60 lecture hours, 30 lab hours). Prerequisite: MAT 090 or high school algebra within the last 7 years.

CHE 105 CHEMISTRY IN CONTEXT WITH LAB (5)

*(GT-SC1)

(CANNOT BE APPLIED TOWARD A.S. DEGREE)

Covers the study of measurements, matter, molecules, atoms, chemical bonding, nomenclature, energy, acids, bases, and nutrition. Course work examines chemistry in the modern world and surveys the current knowledge as well as the conceptual framework of the discipline. Chemistry as a science is explored, as is the impact of chemistry on society. This course includes laboratory experience and is designed for non-science majors.

90 Contact Hours.

CHE 111 GENERAL COLLEGE CHEMISTRY I WITH LAB (5)

*(GT-SC1)

Focuses on basic chemistry and measurement, matter, chemical formulas, reactions and equations, stoichiometry and thermochemistry. This course covers the development of atomic theory culminating in the use of quantum numbers to determine electron configurations of atoms, and the relationship of electron configuration to chemical bond theory and molecular orbital theory. The course includes gases, liquids, and solids and problem-solving skills are emphasized through laboratory experiments.

105 Contact Hours (60 lecture hours, 45 lab hours). Prerequisite: CHE 101 or Equivalent within the last 7 years, or passing grade (60% or more) on the Chemistry placement test. See <http://www.frontrange.edu/assessment>. Co-requisite: MAT 121 unless this class has already been taken.

CHE 112 GENERAL COLLEGE CHEMISTRY II WITH LAB(5)

*(GT-SC1)

Presents concepts in the areas of solution properties, chemical kinetics, chemical equilibrium, acid-base and ionic equilibrium, thermodynamics, electrochemistry, nuclear chemistry, and organic chemistry. This course emphasizes problem solving skills and descriptive contents for these topics. Laboratory experiments demonstrate qualitative and quantitative analytical techniques.

105 Contact Hours (60 lecture hours, 45 lab hours). Prerequisites: CHE 111 within the last 7 years and MAT 121 within the last 7 years.

CHE 205 INTRODUCTORY ORGANIC CHEMISTRY WITH LAB (5)

Focuses on compounds associated with the element carbon, their reactions, and synthesis. Includes structure, physical properties, reactivities, synthesis and reactions of aliphatic hydrocarbons and selected functional group families including alcohols, ethers, aromatics, aldehydes, ketones, amines, amides, esters, and carboxylic acids. Covers nomenclature, stereochemistry, and reaction mechanisms. Includes reactions and reaction mechanisms of aromatic compounds. Designed for students needing one semester of organic chemistry.

105 Contact Hours (60 lecture hours, 45 lab hours). Prerequisites: CHE 101 or (CHE 111 and CHE 112) both within the last 7 years.

CHE 211 ORGANIC CHEMISTRY I WITH LAB (5)

Focuses on compounds associated with the element carbon. Includes structure and reactions of aliphatic hydrocarbons and selected functional group families. Covers nomenclature of organic compounds, stereochemistry, reaction mechanisms such as SN1, SN2, E1 and E2. Laboratory experiments demonstrate the above concepts plus the laboratory techniques associated with organic chemistry.

105 Contact Hours (60 lecture hours; 45 lab hours). Prerequisite: CHE 112 within the last 7 years.

CHE 212 ORGANIC CHEMISTRY II WITH LAB (5)

Explores the chemistry of carbon-based compounds, their reactions and synthesis including the structure, physical properties, reactivities and synthesis of organic functional groups not covered in Organic Chemistry I. The course explores functional groups including alcohols, ethers, aromatics, aldehydes, ketones, amines, amides, esters, and carboxylic acids and the reactions and reaction mechanisms of aromatic compounds. An introduction to biochemical topics if time permits. Laboratory experiences demonstrate the above concepts and the laboratory techniques associated with organic chemistry.

105 Contact Hours (60 lecture hours; 45 lab hours). Prerequisite: CHE 211 within the last 7 years.

CHI - Chinese**CHI 101 CONVERSATIONAL CHINESE I (3)**

Introduces beginning students to conversational Chinese and focuses on understanding and speaking Chinese. Covers basic vocabulary, grammar, and expressions that are used in daily situations and in travel.

45 Contact Hours.

CHI 102 CONVERSATIONAL CHINESE II (3)

Continues the sequence for students who wish to understand and speak Chinese. Covers basic conversational patterns, expressions, and grammar.

45 Contact Hours.

CHI 111 CHINESE LANGUAGE I (5)

Focuses on the development of functional proficiency in listening, speaking, reading and writing the Chinese language. Note: The order of the topics and methodology varies according to individual texts and instructors.

75 Contact Hours.

CHI 112 CHINESE LANGUAGE II (5)

Continues Chinese Language I in the development of functional proficiency in listening, speaking, reading and writing the Chinese language. Note: The order of the topics and the methodology will vary according to individual texts and instructors.

75 Contact Hours. Recommended Preparation: CHI 111

CHI 211 CHINESE LANGUAGE III (3)

Focuses on the further development of functional proficiency in listening to, speaking, reading and writing the Chinese language.

45 Contact Hours. Recommended Preparation: CHI 112.

CIS - Computer Information Systems**CIS 115 INTRODUCTION TO COMPUTER INFORMATION SYSTEMS (3)**

Focuses on an overview of the needs for and roles of computer information systems. Emphasizes computer requirements in organizations, history, hardware functions, programming, systems development, and computer operations. Introduces computer applications.

45 Contact Hours.

CIS 118 INTRODUCTION TO PC APPLICATIONS (3)

Introduces basic computer terminology, file management, and PC system components. Provides an overview of office application software including word processing, spreadsheets, databases, and presentation graphics. Includes the use of a web browser to access the Internet.

45 Contact Hours.

CIS 128 OPERATING SYSTEM: USING MICROSOFT WINDOWS (3)

Introduces the functions and capabilities of an operating system, including configuring and modifying the operating system environment.

45 Contact Hours.

CIS 135 COMPLETE PC WORD PROCESSING: (3)

Explores a complete array of word processing skills. The skills needed to create, edit, format, and printing documents are covered. Other topics include character, paragraph, and page formats, the use of spelling checkers and thesaurus, hyphenation, tables, mail merge, document design, and graphics.

45 Contact Hours. Recommended Preparation: CIS 118.

CIS 145 COMPLETE PC DATABASE: ACCESS (3)

Explores a complete array of database skills. Includes table, query, form, and report creation and modification. Other topics include application integration and automation of database tasks within the database.

45 Contact Hours. Recommended Preparation: CIS 118

CIS 146 DATABASE APPLICATION DEVELOPMENT: ACCESS (3)

Covers the PC database concepts necessary to create database applications. Includes programming, shared files, resource locking, and database recovery.

45 Contact Hours. Prerequisite: CIS 145. Recommended Preparation: CIS 154.

CIS 155 PC SPREADSHEET CONCEPTS: EXCEL (3)

Exposes the student to a wide range of uses of the electronic spreadsheet with special emphasis as a business tool. Includes fundamentals and terms, creating and saving workbooks, entering and using formulas, formatting, printing, multiple-page workbooks, creating charts, entering and using functions, managing lists, and simple macros.

45 Contact Hours. Recommended Preparation: CIS 118

CIS 167 DESKTOP PUBLISHING (3)

Introduces the concepts and applications for desktop publishing using word processing software. Emphasizes page layout and design with techniques for incorporating text and graphics and final production of printed documents.

45 Contact Hours. Prerequisite: Knowledge of word processing.

CIS 218 ADVANCED PC APPLICATIONS (3)

Covers the advanced capabilities of a PC software applications suite. Emphasizes solving business problems by integrating data from all software applications that facilitate the production of useful information. Printed documents, reports, slides, and forms are produced to communicate information.

45 Contact Hours. Recommended Preparation: CIS 118

CIS 220 FUNDAMENTALS OF UNIX (3)

Covers the structure and fundamentals of the UNIX operating system. Includes the files system and file processing, various utility programs, and shell, multi-user operation, text processing and communications.

45 Contact Hours.

CIS 222 UNIX SYSTEM ADMINISTRATION (3)

Introduces the UNIX/Linux operating system and covers the skills required to install, configure and operate a UNIX/Linux system.

45 Contact Hours.

CIS 223 LINUX (3)

Introduces students to the concepts of installing, configuring, and managing the Linux operating system. Topics covered include working with various desktops, use of file system commands, and management of user and group permissions.

45 Contact Hours. Prerequisite: CIS 115

CIS 232 UNIX SHELL PROGRAMMING (3)

Covers simple scripts to automate frequently executed commands followed by an explanation of adding conditional logic, user interaction, loops, menus, traps, and functions to enhance the productivity and effectiveness of the user. In addition, students explore in detail Bourne and Korn shell scripting languages.

45 Contact Hours. Recommended Preparation: CIS 220 and CIS 223.

CIS 240 DATABASE DESIGN AND DEVELOPMENT (3)

Introduces the basic concepts of relational databases, data storage, and retrieval. Covers database design, data modeling, transaction processing and introduces the Structured Query Language for databases.

45 Contact Hours. Recommended Preparation: CIS 145.

CIS 244 SQL PL/SQL (3)

Provides a detailed introduction to the Structured Query Language (SQL) as used in modern relational database systems. Students will develop skills in storing, retrieving and manipulating data using SQL as well as in defining database objects using the portion of SQL known as the Data Definition Language (DDL). The course will also provide a detailed introduction to the PL/SQL programming language that is integral to some widely-used relational database systems, such as Oracle. Students learn to create and maintain blocks of PL/SQL code that are used and shared by multiple forms, reports and program libraries. Users learn to implement database triggers and other coded structures applicable to client/server databases.

45 Contact Hours. Prerequisite: CIS 145

CIS 246 ORACLE DATABASE ADMINISTRATION I (4)

Provides a foundation in basic Oracle architecture, storage structure and database administrative tasks. Emphasizes the knowledge and skills to create databases and data dictionary views, and to manage Oracle instances, tables, table spaces, data files, control files, and redo log files and rollback segments.

60 Contact Hours. Recommended Preparation: CIS 240.

CIS 252 IMPLEMENT&MAINTAIN MS SQL SVR (3)

Provides students with the knowledge and skills to implement and maintain a Microsoft SQL Server database. The course

focuses on teaching students how to use SQL Server features and tools related to maintaining a database.

45 Contact Hours. Recommended Preparation CIS 244

CIS 263 PC HELP DESK SKILLS (3)

Enables the student to understand and develop appropriate help-desk techniques. Includes roles of help desk personnel, and how to troubleshoot hardware and software problems.

45 Contact Hours.

CIS 267 MANAGEMENT OF INFORMATION SYSTEMS (3)

Introduces the concepts and techniques of managing computer-based information resources. Includes hardware, software, personnel, control techniques, and the placement and integration of information systems resources within the organization.

45 Contact Hours.

CIS 268 SYSTEMS ANALYSIS AND DESIGN I (3)

Introduces the student to the materials, techniques, procedures, and human inter-relations involved in developing computer information systems. Includes the systems approach, fact gathering techniques, forms design, input/output, file design, file organization, various charting techniques, system audits on controls, project management, implementation, and evaluation.

45 Contact Hours. Recommended Preparation: CIS 115.

See the list of Specialized Computer Information Systems Courses on the first page of this Course Offerings section.

CIS 280 INTERNSHIP (1-12)

Provides students with the opportunity to supplement coursework with practical work experience related to their educational program. Students work under the immediate supervision of experienced personnel at the business locations and with the direct guidance of the instructor.

45 Contact Hours per credit. Prerequisite: To be determined by the instructor.

CNG - Computer Networking**CNG 121 COMPUTER TECHNICIAN I: A+ (4)**

Provides students with an in-depth look at personal computer hardware, introduces O.S. features and security concepts, and covers interpersonal skills, all of which are necessary for a successful entry-level computer service technician position. Provides extensive hands-on work with computer systems, PC setup and configuration, and basic maintenance and troubleshooting. This course helps prepare you for the CompTIA A+ Essentials Exam.

60 Contact Hours.

CNG 122 COMPUTER TECHNICIAN II: A+ (4)

Provides students with an in-depth look at Operating System support, maintenance, and troubleshooting, and an overview of hardware, security concepts, and interpersonal skills, all of which are necessary for a successful entry-level computer service technician position. Provides extensive hands-on work with Windows 2000 and/or XP, including using common GUI and command line tools, registry editing, System backup and Recovery, Networking, and O.S. Troubleshooting. This course helps prepare you for the CompTIA A+ 602 Exam..

60 Contact Hours

CNG 124 NETWORKING I: NETWORK + (3)

Provides students with the knowledge necessary to understand, identify and perform necessary tasks involved in supporting a network. Covers the vendor-independent networking skills and concepts that affect all aspects of networking, such as installing and configuring the TCP/IP. This course also prepares students for the Networking II: Network + course.

45 Contact Hours. Prerequisite: CNG 122

CNG 125 NETWORKING II: NETWORK + (3)

Continues to provide students with the knowledge necessary to implement and support a network. Focuses on the vendor-independent networking skills and concepts that affect all aspects of networking. The Networking I and II: Network + courses prepare students for the Network + certification.

45 Contact Hours. Prerequisite: CNG 124

CNG 131 NETWORK SECURITY FUNDAMENTALS (3)

Delivers a comprehensive overview of network security, including general security concepts. Communication Security is studied, including remote access, email, the Web, directory and file transfer and wireless data. Common network attacks are introduced. Cryptography basics are incorporated and operational/organizational security is discussed as it relates to physical security, disaster recovery and business continuity. Computer forensics is introduced.

45 Contact Hours. Recommended Preparation: CNG 125.

CNG 132 PRINCIPLES OF INFORMATION SECURITY (3)

Examines the field of information security to prepare information systems students for their future roles as business decision-makers. The course presents a balance of the managerial and the technical aspects of information security. The concepts covered in this course should be helpful for students working towards the Certified Information Systems Security Professional (CISSP) certification.

45 Contact Hours. Prerequisite: CNG 131

CNG 133 FIREWALLS-NETWORK SECURITY (3)

Teaches students the basics of network firewall security. It covers basic installation techniques, discusses how to make an intelligent choice of firewall technology, and presents basic firewall troubleshooting.

45 Contact Hours. Recommended Preparation: CNG 125

CNG 209 MS SERVER ACTIVE DIRECT CONFIGURATION (4)

Provides students with the knowledge and skills to configure Active Directory Domain Services in a distributed environment, implement Group Policies, perform backup and restore, and monitor and troubleshoot Active Directory related issues.

60 Contact Hours. Recommended Preparation: CNG 212

CNG 211 WINDOWS CONFIGURATION (3)

Provides students with the knowledge and skills necessary to address the implementation and desktop support needs of customers who are planning to deploy and support Microsoft Windows client O.S. in a variety of network operating system environments.

45 Contact Hours. Recommended Preparation: CNG 122

CNG 212 MANAGING A MS WINDOWS SERVER ENVIRONMENT (4)

Provides students with the knowledge and skills that are required to manage accounts and resources, maintain server resources, monitor server performance and safeguard data in a Microsoft Windows Server environment.

60 Contact Hours. Prerequisite: CNG 211

CNG 213 IMPLEMENTING A MS WINDOWS NETWORK INFRASTRUCTURE (4)

Provides students with the knowledge and skills to implement and manage a Microsoft Windows Server network infrastructure. Students will learn to implement routing; implement and manage Dynamic Host Configuration Protocol (DHCP), Domain Name System (DNS) and Windows Internet Naming Service (WINS); secure Internet Protocol (IP) traffic with Internet Protocol security (IPSec) and certificates; configure a network access infrastructure and manage and monitor network access.

60 Contact Hours. Recommended Preparation: CNG 212

CNG 214 PLAN A MS WINDOWS SERVER NETWORK INFRASTRUCTURE (4)

Provides students with the knowledge and skills necessary to plan and maintain a Windows Server network infrastructure. Students will learn to plan, optimize and troubleshoot a TCP/IP physical and logical network, routing, Dynamic Host Configuration Protocol (DHCP), Domain Name System (DNS), Windows Internet Naming Service (WINS) and IPSec network access.

60 Contact Hours. Recommended Preparation: CNG 213

CNG 217 IMPLEMENTING SECURITY FOR MICROSOFT NETWORKS (4)

Provides students with the knowledge and skill necessary to implement, manage, maintain, and troubleshoot security in a Microsoft network infrastructure. Students will learn to plan and configure a Microsoft Public Key Infrastructure (PKI) system.

60 Contact Hours. Recommended Preparation: CNG 125.

CNG 230 FAST TRACK CCNA 1 AND 2 (5)

Presents the first of two parts of the CCNA certification preparation course for students who already have a solid networking background. It will consist of internetworking, internet protocols, IP subnetting, introduction to the Cisco IOS, IP routing, EGRIP, and OSPF.

75 Contact Hours. Prerequisites: CNG 122 and CNG 124

CNG 231 FAST TRACK CCNA 3 AND 4 (5)

Presents the second of two parts of the CCNA certification preparation course for students who have completed the CCNA 1 course. It will consist of VLSM, Layer 2 switching, VLANs, ACLs, PPP, Frame Relay and DDR.

75 Contact Hours. Prerequisite: CNG 230

COM - Communication**COM 115 PUBLIC SPEAKING (3)**

Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

45 Contact Hours. *Recommended Preparation:* ENG 090 or higher with a C or better or appropriate diagnostic score to place into ENG 121. COM 115 or COM 125 is a CCCS requirement for A.A./A.S. degrees.

COM 125 INTERPERSONAL COMMUNICATION (3)

Examines the communication involved in interpersonal relationships occurring in family, social, and career situations. Relevant concepts include self-concept, perception, listening, nonverbal communication, and conflict.

45 Contact Hours. *Recommended Preparation:* ENG 090 or higher with a C or better or appropriate diagnostic score to place into ENG 121. COM 115 or COM 125 is a CCCS requirement for A.A./A.S. degrees.

COM 209 INTRAPERSONAL COMMUNICATION (3)

Introduces the study of intrapersonal communication (communication with self) and emphasizes understanding of one's past experiences in learning how to set goals, accomplish life objectives, communicate with self, and plan for the future. This course includes individualized research, journaling, creativity explorations, lessons involving an individual's past and present hopes and dreams, goal setting for the future, positive self-exploration techniques and styles, networking, personal assessments, and creativity enhancement.

45 Contact Hours.

COM 217 GROUP COMMUNICATION (3)

Examines group communication theories, with an emphasis on leadership and group behaviors. The course provides opportunities for group participation.

45 Contact Hours. *Recommended Preparation:* COM 125.

COM 220 INTERCULTURAL COMMUNICATION (3)

***(GT-SS3)**

Explores the link between culture and communication, and will develop and/or enhance communication skills and the abilities appropriate to a multicultural society. Emphasis will be on understanding diversity within and across cultures. Relevant concepts include perception, worldview, context, ethics, language, and nonverbal communication.

45 Contact Hours. *Recommended Preparation:* COM 125.

COM 225 ORGANIZATIONAL COMMUNICATION (3)

This course focuses on the role of communication theory and skills as they apply to business and organizational settings. Topics include organizational and leadership models; effective communication skills with peers, superiors, and subordinates; environmental factors impacting communication; and interviewing skills.

45 Contact Hours. *Recommended Preparation:* COM 115 and COM 125

COM 226 ORAL INTERPRETATION (3)

Exposes the student to the artistic, interpretive, and communicative potential to be found in the reading and performance of great literature and rhetoric such as is found in prose, poetry, and drama.

45 Contact Hours. *Recommended Preparation:* COM 115.

COM 230 ARGUMENTATION AND DEBATE (3)

Introduces the student to the theory of argumentation, including reasoning, evidence, refutation, critical thinking, and extemporaneous speaking. The course includes practice in preparation and oral analysis of selected arguments and styles of debating.

45 Contact Hours. *Prerequisite:* COM 115.

CON - Construction Technology

CON 130 BLUEPRINT READING (2)

Focuses on the techniques for reading and using blueprints and specifications with an emphasis placed on those drawings and types of information that are relevant to the carpentry craft.

45 Contact Hours.

CRJ - Criminal Justice

CRJ 110 INTRO TO CRIMINAL JUSTICE (3)

Introduces a study of the agencies and processes involved in the criminal justice system: the legislature, the police, the prosecutor, the public defender, the courts and corrections. Includes an analysis of the roles and problems of the criminal justice system in a democratic society, with an emphasis upon inter-component relations and checks and balances.

45 Contact Hours.

CRJ 125 LAW ENFORCEMENT OPERATIONS (3)

Examines the complexity and multi-dimensional aspects of the law enforcement role and career; law enforcement discretion; law enforcement values and culture in modern America. Covers the role and functions of law enforcement in occupational, social, political and organizational context.

45 Contact Hours.

CRJ 135 JUDICIAL FUNCTION (3)

Examines the criminal process with an analysis of the major judicial decision-makers, i.e., prosecutors, defense attorneys, judges, and the discretionary aspects of adjudication.

45 Contact Hours.

CRJ 145 CORRECTIONAL PROCESS (3)

Focuses on the post-conviction corrections process, the development of a correctional philosophy, theory, and practice, a description of institutional operation, programming and management, and community-based corrections, probation, and parole.

45 Contact Hours.

CRJ 205 PRINCIPLES OF CRIMINAL LAW (3)

Focuses on common law and statutory law crimes, the Model Penal Code, elements defining crimes and penalties, defenses to criminal accusations, and definitions and distinctions between criminal and civil law.

45 Contact Hours.

CRJ 209 CRIMINAL INVESTIGATIONS I (3)

Covers the function of the preliminary investigation at a crime scene to include securing the scene, crime scene searchers, police drawings, and recognition and collection of evidence.

45 Contact Hours.

CRJ 210 CONSTITUTIONAL LAW (3)

Focuses on the powers of government as they are allocated and defined by the United States Constitution. Includes intensive analysis of United States Supreme Court decisions.

45 Contact Hours.

CRJ 220 HUMAN RELATIONS AND SOCIAL CONFLICT (3)

Exploration of the environmental, organizational and socio-psychological dimensions of social control. Includes the study of individual attitudes, beliefs and behavior involved in role conflicts, community relations and conflict management in the social structure.

45 Contact Hours.

CRJ 230 CRIMINOLOGY (3)

Exploration of the question of crime causation from legal, social, political, psychological and theoretical perspectives. Covers the history and development of criminology.

45 Contact Hours.

CRJ 235 DELINQUENT BEHAVIOR (3)

Focuses on the adolescent who violates social and legal norms and the consequences for the individual and society. Emphasizes the social and psychological factors influencing individual delinquent patterns.

45 Contact Hours.

CRJ 236 CRIMINAL JUSTICE RESEARCH METHODS (3)

Introduces and applies methods of criminal justice and criminology with an emphasis on the scientific method and the role of empirical inquiry into criminal justice and criminology. This course will include the study of methodologies of data collection and analysis, the logic of research, the role of theory, measurement, sampling and research designs. Field research and the professional norms and ethics of criminal justice and criminology research will also be covered.

45 Contact Hours.

CRJ 257 VICTIMOLOGY (3)

Demonstrates to the student the role the crime victim plays in the criminal justice system. The traditional response that a crime victim receives from the system will be studied and the psychological, emotional and financial impact these responses have on victimization will be analyzed.

45 Contact Hours.

CRJ 268 CRIMINAL PROFILING (3)

Examines theories of crime causation with respect to crimes committed by the most violent offenders in society. Identifies research done, and the history of Criminal Personality Profiling, beginning with the earliest explanations through the beliefs of modern science, as well as psychological and sociological explanations. Identifies various known offenders, examines their backgrounds, and explains how current research into homicide, sexual offenses and serial killers can provide clues to the identity of unknown offenders.

45 Contact Hours.

CSC - Computer Science**CSC 116 LOGIC AND PROGRAM DESIGN (3)**

Introduces computer program design using concepts of structured programming and logic. Includes pseudocode, flowcharts and structure charts. Covers variables, data types, control structures, looping, program breaks and arrays.

45 Contact Hours. Prerequisite: MAT 099

CSC 154 VISUAL BASIC.NET PROGRAMMING (3)

Provides students with the knowledge and skills needed to develop applications in Microsoft Visual Basic .NET for the

Microsoft .NET platform. Focuses on user interfaces, program structure, language syntax, and implementation details. This is the first course in the Visual Basic .NET curriculum and serves as the entry point for other .NET courses.

45 Contact Hours. Recommended Preparation: CSC 116.

CSC 160 COMPUTER SCIENCE I: (C++) (4)

Introduces students to the discipline of computer science and programming. Algorithm development, data representation, logical expressions, sub-programs and input/output operations using a high-level programming language are covered. Intensive lab work outside of class time is required.

60 Contact Hours. Recommended Preparation: CSC 116.

CSC 161 COMPUTER SCIENCE II (4)

Continues the structured algorithm development and problem solving techniques begun in Computer Science I. Enables students to gain experience in the use of data structures and design of larger software projects. Requires intensive computer laboratory experience.

60 Contact Hours. Prerequisite: CSC 160

CSC 225 COMPUTER ARCHITECTURE/ASSEMBLY LANGUAGE PROGRAMMING (4)

Introduces concepts of computer architecture, functional logic, design, and computer arithmetic. Focuses on the mechanics of information transfer and control within a computer system. Includes symbolic programming techniques, implementing high level control structures, addressing modes and their relation to arrays, subprograms, parameters, linkage to high level languages and the assembly process.

60 Contact Hours. Recommended Preparation: CSC 161 or equivalent.

CSC 230 C PROGRAMMING: PLATFORM (3)

Prepares students to be a better programmer using the C programming language. C is a mid-level language whose economy of expression and data manipulation features allows a programmer to deal with the computer at a low level. The goal is to learn skills that are usable in many languages and understand what is happening at the machine level. The student should already understand the control structures selection, iteration, and subroutines (functions/methods).

45 Contact Hours. Recommended Preparation: CSC 116.

CSC 233 OBJECT-ORIENTED PROGRAMMING (LANG) (3)

Provides students with the skills in Programming in an OOP language at an Advanced Level. It covers all syntactical components of an Object-Oriented language. Emphasizes inheritance, overloading, and polymorphism. Focuses on writing clear, properly structured, and well documented programs using Object-Oriented methodology. Large programs using multiple data structures will be written, preferably working in large groups.

45 Contact Hours. Recommended Preparation: CSC 116

CSC 240 JAVA PROGRAMMING (3)

Introduces the Java programming language and covers basic graphics, events/procedures, user interface, and libraries. Enables the student to write and execute a variety of Java programs. Incorporates Java Applets into HTML.

45 Contact Hours. Recommended Preparation: CSC 116.

CSC 241 ADVANCED JAVA PROGRAMMING (3)

Continues the study of the Java programming language. Covers advanced programming topics including multi-

threading, network/Internet programming, database programming, and JavaBeans. Enables the student to write advanced, large, and complex programs.

45 Contact Hours. Prerequisite: CSC 240

CSC 251 PROGRAMMING WITH MICROSOFT VB.NET (3)

Provides students with the knowledge and skills needed to develop Microsoft .NET-based applications by using Visual Basic .NET. Focuses on Visual Basic .NET (a significant upgrade to Visual Basic) and incorporates new features and framework goals of the .NET architecture. Enables the student to create enterprise applications for the .NET platform and to create more traditional Visual Basic applications that take advantage of the enhancements to the language.

45 Contact Hours. Prerequisite: CSC 154

CSC 252 DATABASE PROGRAM/VISUAL BASIC (3)

Provides an in-depth look at Visual Basic as a database application development language. Topics may include ADO, multi-tier components, data bound controls, remote data access, SQL, and ASP.

45 Contact Hours. Recommended Preparation: CSC 154 and CIS 145.

CUA - Culinary Arts

CUA 101 FOOD SAFETY AND SANITATION (2)

Covers the basic rules of sanitation, food-borne illnesses, safe food temperatures, safe food handling techniques, the HACCP Program, pest control procedures, and local/state health rules and regulations for food service operations. At the completion of the course students take a nationally recognized test from the Education Foundation of the National Restaurant Association. If passed with a score of 75% or more, students receive a Certificate of Completion from the Education Foundation.

2 Credits - 30 Contact Hours

CUA 120 WINES AND SPIRITS (2)

Enables students to examine types of beverages and equipment including wines, beers, spirits, bar equipment and staffing. Covers profitability, marketing, federal and local laws, and service. Focuses on the history of making and processing wines, spirits and beers.

2 Credits - 30 Contact Hours

CWB - Computer Web-Based

CWB 110 COMPLETE WEB AUTHORING (3)

Explores the complete set of web authoring skills using HTML and/or other scripting languages. Includes links, backgrounds, controlling text and graphic placement, tables, image maps, frames and forms.

45 Contact Hours.

CWB 130 WEB EDITING TOOLS: (EDITOR) (3)

Teaches the use of tools for Web page design and development. These tools are designed to make the creation of Web pages easy and consistent. With the use of editing tools, students will be able to build Web pages making use of forms, tables, frames, templates, Cascading Style Sheets (CSS), and layers. The student will also be able to easily publish and manage a Web site once it is created.

45 Contact Hours.

CWB 205 CLIENT-SIDE SCRIPTING: (SOFTWARE) (3)

Explores the client-side programming skills necessary to create dynamic Web content using a markup embeddable and procedural scripting language executing on the client Web browser.

45 Contact Hours. Recommended Preparation: CWB 110, CSC 116 and CIS 244.

CWB 208 WEB APPLICATION DEVELOPMENT: PHP (3)

Teaches students how to work in the server-side scripting environment. Students learn the basics of application development, and general principles that apply to most development environments. Students develop applications using two different server-side application development tools; PHP Hypertext Preprocessor (PHP), and Cold Fusion. Students also learn key application standards such as source and revision control, coding standards, code optimization and data integrity.

45 Contact Hours. Recommended Preparation: CSC 116 and CWB 110

CWB 245 COMPLETE WEB ANIMATION: FLASH (3)

Introduces students to web interactivity, design, and coding principles.

45 Contact Hours. Prerequisite: MGD 143.

CWB 246 ADVANCED WEB ANIMATION (3)

Presents the advanced topics study of the Flash MX authoring tool, Flash's scripting language ActionScript, and the complex functions of the Macromedia Flash .swf file format. The main objective of the course is the exposure to advanced interactivity, design and coding principles.

45 Contact Hours. Prerequisites: CWB 245 or MGD 143.

DAN - Dance

DAN 105 HIP HOP DANCE I (1)

Consists of basic concepts and skills of hip hop dance. Focuses on warm-up exercises, street dance footwork, ground moves, isolations and freezes. Explores hip hop dance as a high energy expression of hip hop culture. Students will learn combinations leading to hip-hop dance routines.

30 Contact Hours.

DAN 106 HIP HOP DANCE II (1)

Continues Hip Hop I with an increased knowledge of Hip Hop dance. This course consists of more advanced and challenging footwork, techniques and combinations as they apply to this genre. Emphasis will be placed on increased technical skills.

30 Contact Hours.

DAN 111 MODERN DANCE I (1)

Introduces basic concepts and skills of modern dance. Focuses on technique work to increase strength, flexibility, endurance, coordination, rhythm and spatial awareness. Explores dance as a tool for communication and dance as an art form. May be repeated for no more than three credits.

30 Contact Hours.

DAN 112 MODERN DANCE II (2)

Includes a more in-depth study of modern dance concepts as well as more specific techniques of modern dance choreography. Focuses on more advanced technique work and more emphasis on improvisation. May be repeated for a total of three credits.

60 Contact Hours. Prerequisite: DAN 111.

DAN 115 COUNTRY SWING I (1)

Includes many styles and various combinations of steps for Western dance music. Will also teach the students how to convert combinations of other dances of traditional and fad as they become popular.

1 Credit - 30 Contact Hours.

DAN 116 COUNTRY SWING II (1)

Teaches advanced steps and dancing skills which will enable the student to enjoy the art of dancing for leisure time activity.

1 Credit - 30 Contact Hours.

DAN 117 SALSA I (1)

Introduces the beginning dancer to popular Salsa steps and dance combinations. This course includes basic partnering concepts and techniques. Dancers will explore rhythm, proper body alignment and music recognition. A partner is not required for this course.

30 Contact Hours.

DAN 118 SALSA II (1)

Continues Salsa I with an increased knowledge of Salsa dance. This course focuses on Salsa dancing in groups of couples with frequent partner exchanges. Dancers learn a more in-depth study of Salsa dance concepts and techniques. A partner is not required for this course.

30 Contact Hours. Prerequisite: DAN 117.

DAN 119 SALSA III (1)

Continues Salsa II with an increased knowledge of Salsa dance. This course focuses on more advanced dance technique as well as performance qualities and creative expression. Students engage in more challenging foot work with frequent partner exchanges. A partner is not required for this course.

30 Contact Hours. Prerequisite: DAN 118.

DAN 121 JAZZ I (1)

Introduces the basic techniques and vocabulary of jazz dance and the basic elements of dance. Focuses on movement oriented dance, comprised of warm-up exercises, center combinations, traveling combinations and cool down. May be repeated for a maximum of three credits.

30 Contact Hours.

DAN 122 JAZZ II (2)

Continues Jazz I with an increased knowledge of jazz dance. Enables the student to work at an intermediate level with a basic understanding of body alignment, balance and musicality. May be repeated for a maximum of three credits.

60 Contact Hours. Prerequisite: DAN 121.

DAN 125 HISTORY OF DANCE I (3)

*(GT-AH1)

Introduces the history of dance as a theatre or performing art. Examines dance from Classical Greece through the Renaissance, including court and classical ballet to modern dance with African and Caribbean influences.

45 Contact Hours. Note: This is not a physical activity class. It is considered an arts and humanities elective.

DAN 129 INTRODUCTION TO DANCE (1)

Introduces the art of dance and movement expression from a variety of viewpoints: historical, cultural, aesthetic, critical and

creative. Examines the art and craft of dance as an expression of culture and community while exploring personal expression, imagery, dance techniques and performance qualities.

30 Contact Hours.

DAN 130 DANCE SAMPLER (1)

Introduces the beginning dancer to popular dances through a social dance sampler in Salsa, Swing, and Country Western Dance technique, footwork, body posturing, rhythms, and dance floor etiquette. Examines a variety of dances such as Salsa's Mambo, Cha-Cha, and Rumba; Swing's Lindy Hop (jitterbug); and Country Western's Two Step, Cowboy Waltz, Cotton-Eyed Joe and various Country Western line dances.

30 Contact Hours.

DAN 131 BALLET I (1)

Introduces the basic techniques of ballet, which are built upon knowledge of ballet terminology, fundamental exercises, and the basic elements of dance. Focuses on movement-oriented dance, comprised of stretching, barre warm-up exercises, simple terre à terre and jumping steps, and basic extended positions. May be repeated for a maximum of three credits.

30 Contact Hours.

DAN 132 BALLET II (2)

Continues Ballet I and emphasizes ballet terminology, fundamental exercises and the basic elements of dance. Focuses on an intermediate level within the basic structure of the ballet class. May be repeated for a maximum of three credits.

60 Contact Hours.

DAN 141 BALLROOM DANCE (1)

Introduces the basic terminology, techniques and routines of several dances from a specific country or region. Focuses on the music, costumes and customs related to the dances they study. Partners are not required. May be repeated for a maximum of three credits.

1 Credit - 30 Contact Hours.

DAN 142 BALLROOM DANCE II (1)

Continues Dance 141 with focus on regional dances, customs and rhythms. Partners are not required. May be repeated for a maximum of three credits.

1 Credit - 30 Contact Hours.

DAN 143 TAP I (1)

Introduces basic tap dance movements and techniques. The shuffle, ball change, brush, flap heel drop, stomp, and stamp step are covered.

30 Contact Hours.

DEA - Dental Assisting

DEA 102 PRINCIPLES OF CLINICAL PRACTICE (3)

Includes techniques used in four handed dentistry, instrument identification and armamentarium for tray set-ups. Covers sterilization and aseptic procedures.

68 Contact Hours. Recommended Preparation: DEA 120 and DEA 121

DEA 104 SPECIALTIES IN DENTISTRY (2)

Focuses on armamentarium of specific tray set-ups for periodontics, endodontics, and fixed and removable prosthodontics. Examines pediatric dentistry, oral surgery, and

implants. Includes diagnosis, treatment, and the dental assistant's role in each specialty.

45 Contact Hours. Prerequisites: DEA 102, DEA 120, and DEA 121

DEA 111 DENTAL OFFICE MANAGEMENT (2)

Includes office management and clerical practices, scheduling appointments, completing daily records, insurance and tax forms, bookkeeping and recall systems, and ordering supplies.

30 Contact Hours. Recommended Preparation: DEA 120, DEA 121

DEA 120 INTRODUCTION TO DENTAL PRACTICES (1)

Includes roles and responsibilities of the dental health team; educational background for the various specialties including general practitioner, hygienist, dental assistant; history, legal implications, ethical responsibilities and the role of professional organizations.

15 Contact Hours.

DEA 121 DENTAL SCIENCE I (3)

Includes fundamentals of the oral structures as they apply oral histology, embryology, morphology, pathology and dental anatomy.

45 Contact Hours. Recommended Preparation: DEA 120.

DEA 122 DENTAL SCIENCE II (3)

Includes survey of human anatomy and physiology, the structure of the head and neck as applied to dental assisting, the function of the maxilla and mandible, processes, foramen, sutures, and major nerve and blood supply.

45 Contact Hours. Recommended Preparation: DEA 120

DEA 123 DENTAL MATERIALS I (3)

Includes fundamentals of dental materials as they apply to clinical and laboratory applications.

68 Contact Hours. Recommended Preparation: DEA 120 and DEA 121.

DEA 124 DENTAL MATERIALS II (3)

Includes type, compositions, and uses of elastomeric impression materials and the fabrication of custom impression trays and temporary crowns.

68 Contact Hours. Prerequisites: DEA 120, DEA 121, and DEA 123

DEA 125 DENTAL RADIOGRAPHY (3)

Focuses on the science of radiography and the application of radiographic techniques, and aseptic techniques. Students must be a minimum of 18 years of age.

68 Contact Hours. Recommended Preparation: DEA 120 and DEA 121.

DEA 126 INFECTION CONTROL (3)

Includes basic information concerning infection and disease transmission in the dental office. Emphasizes knowledge of micro-organisms, with an emphasis on aseptic techniques, sterilization, and hazardous communication management.

45 Contact Hours. Recommended Preparation: DEA 120 and DEA 121.

DEA 131 DENTAL RADIOGRAPHY II (3)

Includes theory and techniques of exposing intra-oral and extra-oral radiographs on adults, children, edentulous, and special needs patients. Covers dental anatomy radiographic interpretation. Enables the student to expose radiographs on the x-ray mannequin and patients. Students must be a minimum of 18 years of age.

68 Contact Hours. Prerequisites: DEA 120, DEA 121, and DEA 125

DEA 132 MEDICAL EMERGENCIES IN THE DENTAL OFFICE (2)

Includes techniques for taking and reading vital signs. Emphasizes recognition, prevention and management of medical emergency situations in the dental office. Covers completing and updating patient health history. Addresses pharmacology.

30 Contact Hours. Recommended Preparation: DEA 120 and DEA 121

DEA 134 PREVENTION AND NUTRITION IN DENTISTRY (2)

Includes techniques in preventive dentistry with an emphasis on fluoride application and oral home care instruction. Includes nutrition as it applies to dental health and diet counseling. Covers techniques for coronal polishing.

45 Contact Hours. Recommended Preparation: DEA 102, DEA 120, DEA 121, DEA 126, DEA 132 and DEA 181

DEA 181 CLINICAL INTERNSHIP I (1)

Includes the opportunity for clinical application of dental assisting techniques in a dental office or clinical setting as part of the American Dental Association's requirement of 300 clinical internship hours.

45 Contact Hours. Recommended Preparation: DEA 120, and DEA 121 .
Corequisites: DEA 102, DEA 123, DEA 125, DEA 126, DEA 132, and DEA 134

DEA 182 CLINICAL INTERNSHIP II AND SEMINAR (6)

Focuses on clinical practice in private or public dental offices or clinics with clinical work experience in both general dentistry and specialty fields on a rotating basis.

270 Contact Hours per credit. Prerequisites: DEA 102, DEA 104, DEA 111, DEA 120, DEA 121, DEA 122, DEA 123, DEA 124, DEA 125, DEA 126, DEA 131, DEA 132, DEA 134, DEA 181 and DEA 183 and Gen Ed course.

DEA 183 CLINICAL INTERNSHIP III (2)

Explores specific job responsibilities pertinent to the dental health team. Enables the dental assisting student to achieve skills by clinical practice. Includes hours of successful completion to satisfy the 300 clock hours required by the ADA Commission on Dental Accreditation.

68 Contact Hours. Prerequisite: DEA 102, DEA 120, DEA 121, DEA 123, DEA 125, DEA 126, DEA 132 and DEA 134. Recommended Preparation: DEA 104, DEA 111, DEA 122, DEA 124, DEA 131, and DEA 181.

DEA 200 INTRODUCTION TO EXPANDED FUNCTIONS (4)

Emphasizes techniques and concepts of expanded functions in dental assisting, including team management, placement and finishing of dental restorative materials, and adjunct procedures necessary to restorative dentistry.

90 Contact Hours. Prerequisite: Graduate of an ADA accredited program, Certified Dental Assistant, or 2 years of documented experience.

DEA 208 NITROUS OXIDE AND OXYGEN ADMINISTRATION (1)

Prepares the dental professional in the administration of nitrous oxide/oxygen (N2O/O2) sedation in the dental setting. Includes the history, pharmacology, equipment and techniques related to nitrous oxide/oxygen administration. Students administer (N2O/O2) sedation under the direct supervision of an approved licensed dentist for a minimum of four (4) hours. Meets the requirement for State of Colorado Board of Dental Examiners approval to administer and monitor nitrous oxide and oxygen sedation.

23 Contact Hours. Prerequisites: CPR professional rescuer certification and one-year work experience

See the list of Specialized Dental Assisting Courses on the first page of this Course Offerings section.

DPM - Diesel Power Mechanics

DPM 100 INTRODUCTION TO DIESEL MECHANICS (2)

Focuses on the student identifying and describing the many different types of diesel powered vehicles. Emphasis is placed on being able to research information in maintenance manuals and parts manuals along with demonstration of their abilities in properly identifying and selecting mechanical fasteners for a particular application. Specific coverage of precision fasteners, fuels and fluids as they relate to the diesel industry.

45 Contact Hours. Prerequisites: ASE 101, ASE 120, ASE 123 and minimum assessment scores to enroll in ENG 060, MAT 060 and REA 060.

DPM 103 DIESEL ENGINES I (4)

Covers the theory and operation of diesel engines with emphasis on cylinder heads and valve trains diagnosis and repair. Also introduces the cooling system's importance with diagnosis and repair. Enables students to diagnose, test and repair cylinder heads and cooling systems on diesel engines.

90 Contact Hours. Prerequisites: DPM 100

DPM 203 DIESEL ENGINES II (4)

Covers the theory of operation and repair of diesel engines with emphasis on the cylinder block in big bore engines. Enables students to disassemble, inspect and reassemble engines.

90 Contact Hours. Prerequisite: DPM 103

ECE - Early Childhood Education

Students enrolling in ECE 102, ECE 112, ECE 180, and ECE 280 must pass a criminal background check before they are allowed to start their practicum hours with children. Contact your home campus ECE Program Director or the FRCC – ECE Online Lead if you are enrolling in an online section for a practicum course for information on how to complete the background check process.

ECE 101 INTRODUCTION TO EARLY CHILDHOOD EDUCATION (3)

Provides an introduction to early childhood education. Includes the eight key areas of professional knowledge: Child growth and development; health, nutrition and safety; developmentally appropriate practices; guidance; family and community relationships; diversity; professionalism; administration and supervision. Focuses on ages from birth through age 8.

45 Contact Hours. Prerequisites: Completion of ENG 060 or higher or equivalent placement test scores and REA 060 or higher or equivalent placement test scores.

ECE 102 INTRODUCTION TO EARLY CHILDHOOD LAB TECHNIQUES (3)

Focuses on a classroom seminar and placement in a child care setting. The supervised placement provides the student with the opportunity to observe children, to practice appropriate interactions, and to develop effective guidance and management techniques. Addresses ages birth through age 8.

75 Contact Hours (15 lecture hours, 60 lab hours). Prerequisites: Completion of ENG 060 or higher or equivalent placement test scores and REA 060 or higher or equivalent placement test scores., and ECE 101. ECE 101 may be taken concurrently.

ECE 103 GUIDANCE STRATEGIES FOR CHILDREN (3)

Explores guidance theories, applications, goals, techniques and factors that influence expectations, classroom management issues, and prosocial skills. Addresses ages birth through age 8.

45 Contact Hours. Prerequisites: Completion of ENG 060 or higher or equivalent placement test scores and REA 060 or higher or equivalent placement test scores.

ECE 108 THE ASSESSMENT PROCESS IN EARLY CHILDHOOD EDUCATION (1)

Focuses on exposing students to a wide variety of screening tools and evaluations appropriate for children birth to 8 years of age. Enables students to gain beginning knowledge in the selection of developmental screening tools and evaluations important to the IFSP/IEP.

15 Contact Hours.

ECE 111 INFANT AND TODDLER THEORY AND PRACTICE (3)

Presents an overview of theories, applications (including observations) and issues pertinent to infant and toddler development in-group and/or family settings. Includes state requirements for licensing, health, safety and nutrition issues. Note: Ages addressed are prenatal through age 2.

45 Contact Hours.

ECE 112 INTRODUCTION TO INFANT/TODDLER/LAB TECH (3)

Includes a classroom seminar and placement in an infant and/or toddler setting. The supervised placement provides the student with the opportunity to observe, to practice appropriate interactions and to develop effective guidance and nurturing techniques with infants and/or toddlers. Addresses ages prenatal through age 2.

75 Contact Hours (15 lecture hours, 60 lab hours). Prerequisite: ECE 111. Corequisite: ECE 111.

ECE 126 ART AND THE YOUNG CHILD (2)

Prepares students to plan and implement a comprehensive and developmentally appropriate art program for young children. Investigates the development of self-taught art techniques in young children.

30 Contact Hours.

ECE 127 MUSIC/MOVEMENT FOR THE YOUNG CHILD (1)

Focuses on the purposes of incorporating music and movement into the early childhood curriculum. Through active participation with hands-on experiences, students work with the concepts of age and developmental appropriateness when designing fun activities with both subjects.

15 Contact Hours.

ECE 155 FAMILY AND PARENTING ISSUES (1)

Explores the types of family organizations, functional roles of family members, different parenting styles and other issues impacting children's development that families and parents are experiencing in today's society.

15 Contact Hours.

ECE 157 FAMILY DYNAMICS (1)

Enables the student to understand and develop partnerships with families who have children with special needs. Introduces the concept of family systems, the impact of children with special needs upon the family system, and the role of the paraeducator in collaborating with families of diverse cultural, socio-economic, and ethnic backgrounds.

15 Contact Hours.

ECE 160 BEHAVIOR MANAGEMENT TECHNIQUES IN EARLY CHILDHOOD EDUCATION (1)

Provides information pertaining to behavior management techniques to promote a positive learning environment for children in inclusive settings. Addresses various principles and techniques concerning individual behavior needs and classroom management.

15 Contact Hours.

ECE 161 THE TEAM PROCESS (1)

Enables the student to work effectively in team situations. Covers the interpersonal aspects of working in a team as well as specific skills in establishing good working relationships among personnel with differing roles and responsibilities.

15 Contact Hours.

ECE 179 SEMINAR (1-2)

Provides students with an opportunity to examine aspects of early childhood education in detail.

15 Contact Hours per credit. Prerequisite: ECE 102. Corequisite: ECE 180.

ECE 180 PRACTICUM (3)

Focuses on work experience in an early childhood setting.

90 Contact Hours. Prerequisite: ECE 102. Corequisite: ECE 179.

ECE 188 PRACTICUM: ECE (1-12)

Provides students with field experience in early childhood programs.

30 Contact Hours Per Credit.

ECE 195 SCHOOL AGE CHILD IN CHILD CARE (2)

Explores important issues of before and after school care (school holiday and summer day camp), emphasizing child development, health, safety, and appropriate activities for school-age children in the child care setting.

30 Contact Hours.

ECE 205 NUTRITION, HEALTH AND SAFETY (3)

Focuses on nutrition, health and safety for optimal growth and development of young children. Includes nutrient knowledge, menu planning, food program participation, health practices, management and safety, appropriate activities and communication with families. Addresses ages from prenatal through age 8.

45 Contact Hours.

ECE 209 OBSERVING YOUNG CHILDREN (1)

Examines the current research on the continuous practice of observing children. Incorporates practice with a variety of assessment instruments currently utilized in Colorado ECE programs.

15 Contact Hours.

ECE 220 CURRICULUM DEVELOPMENT: METHODS AND TECHNIQUES (3)

Provides an overview of early childhood curriculum development. Includes processes for planning and implementing developmentally appropriate environments, materials and experiences, and quality in early childhood programs. Note: Ages addressed are birth through age 8.

45 Contact Hours. Prerequisite: ECE 101 or ECE 238.

ECE 225 LANGUAGE AND COGNITION FOR THE YOUNG CHILD (3)

Examines theories of cognitive and language development as a framework for conceptualizing the way children acquire thinking skills. Includes observing, planning, facilitating, creative representation, and evaluating strategies within the context of play. Focuses on language, science, math, problem solving and logical thinking. Addresses ages birth through age 8.

45 Contact Hours.

ECE 226 CREATIVITY AND THE YOUNG CHILD (3)

Provides an emphasis on encouraging and supporting creative self-expression and problem solving skills in children. Explores creative learning theories and research. Focuses on developmentally appropriate curriculum strategies in all developmental domains. Addresses ages birth through age 8.

45 Contact Hours.

ECE 228 LANGUAGE AND LITERACY (3)

Presents strategies for optimum language development, literacy, social and emotional development. Supports children's language and literacy in home, classroom and community settings. Provides appropriate teacher/child verbal interactions, classroom environments and activities. Addresses ages birth through age 8.

45 Contact Hours.

ECE 236 CHILD GROWTH/DEVELOPMENT LABORATORY (1)

Covers the growth and development of the child from conception through the elementary school years. Emphasizes physical, cognitive, language, social and emotional domains and the concept of the whole child and how adults can provide a supportive environment. Addresses ages from prenatal through age 12.

30 Contact Hours.

ECE 237 SOCIAL AND EMOTIONAL GROWTH (3)

Incorporates student specific techniques and strategies for guiding and enhancing social and emotional growth in children 0-8 years. Introduces and compares the theories and theorists underlying quality interactions and patterns of social and emotional progression.

45 Contact Hours.

ECE 238 CHILD GROWTH AND DEVELOPMENT (3)

Covers the growth and development of the child from conception through the elementary school years. Emphasizes physical, cognitive, language, social and emotional domains and the concept of the whole child and how adults can provide a supportive environment. Addresses ages from prenatal through age 12.

45 Contact Hours. Prerequisites: Completion of ENG 060 or higher or equivalent placement test scores and REA 060 or higher or equivalent placement test scores.

ECE 240 ADMINISTRATION OF EARLY CHILDHOOD CARE AND EDUCATION PROGRAMS (3)

Examines Colorado's minimal licensing requirements, as well as optimal standards pertaining to the operation of programs for young children. Focuses on the director's administrative skills and role as a community advocate for young children. Addresses ages from birth through age 12.

45 Contact Hours. Prerequisite: ECE 220 or ECE 238.

ECE 241 ADMINISTRATION: HUMAN RELATIONS FOR EARLY CHILDHOOD EDUCATION (3)

Focuses on the human relations component of an early childhood professional's responsibilities. Includes director-staff relationships, staff development, leadership strategies, parent-professional partnerships, and community interaction.

45 Contact Hours.

ECE 260 EXCEPTIONAL CHILD (3)

Presents an overview of typical and atypical developmental progression. Includes planning techniques, learning strategies, legal requirements and accommodations and adaptations that are necessary in order to create an inclusive classroom environment for a child with a wide range of exceptionalities. Focuses on ages birth through age 8.

45 Contact Hours. Prerequisite: ECE 238.

ECE 266 MULTICULTURAL CURRICULUM (3)

Explores views of different ethnic groups regarding early childhood, child-rearing practices and the child's role in society. Focuses on developing a multicultural curriculum to incorporate individually based developmental and culturally appropriate practices. Provides opportunities to design multicultural materials to address cognition, socialization, language and small and large motor development.

45 Contact Hours.

See the list of Specialized Early Childhood Education Courses on the first page of this Course Offerings section.

ECE 279 SEMINAR (1-2)

Provides students with an opportunity to examine aspects of early childhood education in detail.

15 Contact Hours per credit. Prerequisites: ECE 102 and ECE 179. Corequisite: ECE 280 or ECE 287. 15-30 Contact Hours.

ECE 280 PRACTICUM (3)

Focuses on work experience in a licensed early childhood care and education program.

90 Contact Hours. Prerequisites: ECE 102, ECE 179 and ECE 180. Corequisite: ECE 279.

ECO - Economics**ECO 101 ECONOMICS OF SOCIAL ISSUES (3)**

*(GT-SS1)

Examines the major socio-economic issues of the past century. Covers poverty and growth, education, health care, pollution and discrimination.

45 Contact Hours.

ECO 201 PRINCIPLES OF MACROECONOMICS (3)

*(GT-SS1)

Focuses on the study of the American economy, stressing the interrelationships among the household, business, and

government sectors. Explores saving and investment decisions, unemployment, inflation, national income accounting, taxing and spending policies, the limits of the market and government, public choice theory, the Federal Reserve System, money and banking, and international trade.

45 Contact Hours. Recommended Preparation: ECO 202 and MAT 090.

ECO 202 PRINCIPLES OF MICROECONOMICS (3)

*(GT-SS1)

Focuses on the consumer, the firm, the nature of cost, and how these relate to the economy as a whole. Analyzes economic models of the consumer, perfect competition, monopoly, oligopoly and monopolistic competition. Explores economic issues including market power, population growth, positive and negative externalities, income distribution, poverty and welfare, discrimination, and international economic inter-dependence.

45 Contact Hours. Recommended Preparation: MAT 090.

ECO 211 GENDER IN THE ECONOMY (3)

The course introduces students to how gender factors into the economy. It includes the concepts of femininity and masculinity and how these concepts play a role in consumption, labor and marriage markets, poverty and inequality, and globalization.

45 Contact Hours.

ECO 235 ISSUES IN INTERNATIONAL ECONOMICS (3)

This course studies international economic interdependence. It analyzes the foundations of trade theory, international trade organizations and trade policies, regional trade arrangements, international financial institutions, and e-trade.

45 Contact Hours. Recommended Preparation: ECO 201 and ECO 202.

ECO 245 ISSUES IN ENVIRONMENTAL ECONOMICS (3)

*(GT-SS1)

Introduces students to contemporary environmental issues and policies meant to reduce environmental degradation. Includes market failures, analytical tools, government pollution reduction policies for air, water and natural environments and their effectiveness.

45 Contact Hours. Recommended Preparation: ECO 202.

EDU - Education**EDU 005 TEST PREP FOR PARAEDUCATORS WORKKEYS (1)**

Reviews the format and content for the ACT Paraeducator WorkKeys assessment. Student will become familiar with the knowledge needed for the applied math and reading for information and writing assessments.

15 Contact Hours.

EDU 111 COMMUNICATIONS SKILLS WITH SPECIAL POPULATIONS FOR PARAEDUCATION (3)

Provides knowledge in areas of effective communication skills; problem solving techniques; and analyzing self as communicator.

45 Contact Hours.

EDU 112 HEALTH AND SAFETY ISSUES IN SCHOOLS FOR PARAEDUCATORS (1)

Provides students with the knowledge in the area of health and safety issues in schools; basic first aid and CPR procedures;

and the feeding and positioning of physically challenged students.

15 Contact Hours.

EDU 114 STUDENTS BEHAVIOR MANAGEMENT FOR PARAEducATORS (3)

Provides students knowledge in the areas of behavior modification; teaching appropriate behaviors; contingency contacts; observing and recording behavior; lunchroom supervision; and playground supervision.

45 Contact Hours.

EDU 131 INTRODUCTION TO ADULT EDUCATION (3)

Introduces the student to the basic concepts in the instruction of adults. Emphasis will be placed on understanding the adult learner and how their individual backgrounds and experiences can affect the learning process. Additionally, the course will cover applicable federal and state legislation that affects adult learning programs and will offer information on additional resources and associations in the field of adult education.

45 Contact Hours.

EDU 132 PLANNING, ORGANIZING AND DELIVERING ADULT EDUCATION INSTRUCTION (3)

Covers the basics of planning an adult education program, organizing instruction within the various content areas, and delivering the material in a variety of ways, both in groups and individualized instruction. A wide variety of learning principles and theories will be addressed in ways that show their applicability to the adult learner and the student's education.

45 Contact Hours.

EDU 133 ADULT BASIC EDUCATION (ABE) ADULT SECONDARY EDUCATION (ESL) (3)

Specifically addresses the different levels within an adult education program. Each level will be addressed in terms of appropriate assessment tools and instructional techniques. Emphasis will be placed on teaching ways that the adult education instructor can encourage the development of cognitive skills at each level, as a springboard to the next higher level.

45 Contact Hours.

EDU 134 TEACHING ENGLISH AS A SECOND LANGUAGE TO ADULT LEARNERS (3)

Introduces the development and implementation of a program to teach English to adults whose first language is not English. Topics will range widely from assessment and placement to the theories behind language acquisition. Students will also cover a wide variety of methodologies, both group and individualized, that are aimed at teaching the non-English speaker the written and verbal skills necessary to successfully function in the United States.

45 Contact Hours.

EDU 135 FAMILY LITERACY IN ADULT EDUCATION (3)

Introduces the students to the philosophy and theory behind family literacy, as well as give practical advice on the development and implementation of a family literacy program. The four-component model of adult education, early childhood education, parent and child together time (PACT), and parenting will be covered, both in theory and practical application.

45 Contact Hours.

EDU 141 BASIC INSTRUCTIONAL TECHNIQUES FOR PARAEducATORS (3)

Provides students with knowledge in the areas of delivering instruction; grouping students; reading with students; modifying instructional materials; using technology; and utilizing adaptive equipment.

45 Contact Hours.

EDU 194 SERVICE LEARNING (3)

Allows the student to provide a service to the community utilizing knowledge and skills acquired from college coursework. Aims to focus on the philosophical, educational and ethical aspects of community work. Its purpose is to empower students and citizens with practical, methods for advocacy.

45 Contact Hours.

EDU 220 EXPLORATION OF TEACHING (2)

Gives students a study of the broad overview of topics related to the teaching profession, grades K-12. Provides a hands-on, relevant exploration to help each student personally consider a career in education.

30 Contact Hours.

EDU 221 INTRO TO EDUCATION (3)

Focuses on the historical, social, political, philosophical, cultural and economic forces that shape the United States public school system. Includes current issues of educational reform, technology as it relates to education and considerations related to becoming a teacher in the state of Colorado.

45 Contact Hours. Prerequisite: College level English proficiency or ENG 090 or COM 115. Corequisite: May include additional field experience if not embedded in the course.

EDU 222 EFFECTIVE TEACHING (1)

Focuses on strategies for becoming an effective teacher. Topics included are: course goals and objectives, the first day, planning a lesson, higher levels of thought, test design and grading, assessment, and teaching and learning styles.

15 Contact Hours.

EDU 231 INTRO TO BILINGUAL EDUCATION (4)

Focuses on bilingual and multicultural education with emphasis on the linguistically and culturally diverse learner. Covers historical perspectives, philosophical frameworks, legal implications, subject matter methodologies and current issues, which impact bilingual educational programs.

60 Contact Hours. Prerequisite: EDU 221

EDU 232 LITERACY IN THE MULTICULTURAL/MULTILINGUAL CLASSROOM (3)

Introduces students to the theories, methods and techniques for teaching reading and languages to the children from diverse cultural and linguistic backgrounds. Includes field experience applying coursework with children.

45 Contact Hours.

EDU 233 ENGLISH LANGUAGE LEARNING (K - 6) (3)

Prepares teachers who work with limited English proficient students to learn strategies to develop English language learners' (ELLs') social and academic English and supports their transition to US culture and schools. This course is appropriate in a variety of program models: mainstream classrooms, self-

contained ESL classrooms, and bilingual programs and may be adapted for use with pre-service teachers.

45 Contact Hours. Prerequisite: EDU 221

EDU 242 EXPRESSIVE ARTS IN THE ELEMENTARY CLASSROOM (3)

Explores the integration of visual arts, music, and physical education/movement into the self-contained elementary classroom curriculum based upon the theory of multiple intelligences. Familiarizes the student with the Colorado Model Content Standards for each area, basic curriculum development, and the opportunities to practice their skills with students through field experiences.

45 Contact Hours. Prerequisite: EDU 221.

EDU 250 CTE IN COLORADO (1)

Explores common elements of American Community College philosophy and current practices. It details the philosophy of Career and Technical Education (CTE), the federal Carl D. Perkins legislation and related guidelines for CTE, national and state regulatory agencies, the CCCS program approval process, enrollment management and advising strategies, relevant local and national issues, and quality assurance principles.

15 Contact Hours.

EDU 251 SECONDARY CTE CAPSTONE (3)

This capstone course in the secondary CTE credentialing sequence offers an in-depth analysis of secondary career and technical student organizations and competitions, the Colorado Technical Act, working with exceptional students, creating and effectively deploying program advisory committees, and an overview of educational and political systems in Colorado. The final project is an analysis of the efficiency with which one's employing school district funds, operates and assesses CTE programs.

45 Contact Hours.

EDU 260 ADULT LEARNING AND TEACHING (3)

Introduces the basic instructional theory focusing on the adult learner. Includes developing a syllabus, learning goals and outcomes, and lesson plans. Emphasizes teaching to a diverse participant body, classroom management, learning theory, learning styles, teaching styles, and using technology in the classroom.

45 Contact Hours.

EDU 261 TEACHING, LEARNING AND TECHNOLOGY (3)

Prepares students to integrate technology into their teaching curriculum. Enables the student to design educational and training materials incorporating instructional technology. Explores a variety of technologies, including the computer, Internet, multimedia, graphics, audio, and text with an emphasis on increasing learning through their use. Examines combining technology with a variety of instructional methodologies.

45 Contact Hours. Prerequisite: EDU 221 or EDU 260

EDU 266 ADVANCED COLLEGE TEACHING METHODS (1)

Explores current adult learning theory, and relates this theory to the practice of teaching. It also covers a variety of factors that influence teaching and learning, including social and individual psychological aspects of adult learning, patterns of participation and motivation, the role of instructional technology, handling challenging classroom behaviors, and assessment and evaluation strategies. The main point raised

and discussed throughout the course is that effective teaching requires that instructors utilize a range of teaching and assessment approaches and methods in order to enhance learning.

15 Contact Hours.

EDU 288 PRACTICUM II (1)

Provides students with the opportunity to supplement coursework with practical work experience related to their educational program. Students work under the immediate supervision of experienced personnel at the education facility and with the direct guidance of the instructor.

30 Contact Hours per credit.

EDU 289 CAPSTONE (1)

Focuses on a demonstrated culmination of learning within a given program of study.

45 Contact Hours per credit. Prerequisites or Corequisites: TEL 100 and TEL 102 and TEL 103 and TEL 188 and TEL 225 and (EDU 134 or TEL 245).

EGG - Engineering

EGG 211 ENGINEERING MECHANICS I - STATICS (3)

Focuses on the vector and calculus treatment of forces and force systems. Covers concurrent and noncurrent force systems. Includes calculating moments of friction, trusses, centroids and moments of inertia.

45 Contact Hours. Recommended Preparation: PHY 211.

EGG 212 ENGINEERING MECHANICS II - DYNAMICS (3)

Focuses on vector and calculus treatment of the dynamics of particles and rigid bodies using Newton's Laws. Includes work-energy impulse momentum, and free and forced oscillations.

45 Contact Hours. Recommended Preparation: PHY 211.

EGT - Engineering Graphics Technology

EGT 101 TECHNICAL DRAFTING I (3)

Introduces the student to basic engineering graphics technology principles through development of basic entry-level drafting skills. Enables the student to develop skills in sketching, reading drafting scales, interpreting line types, lettering techniques, geometric construction, orthographic projection, and drawing reproduction.

45 Contact Hours.

EGT 143 CIVIL/SURVEY DRAFTING I (3)

Focuses on Civil and Survey drafting skills necessary to produce document sets of land surveys/plats, legal descriptions, site layout, plan, profile & alignments, pipe layouts, contour maps and earthwork.

45 Contact Hours.

EGT 201 ENGINEERING MATERIALS (3)

Investigates the physical and mechanical properties of engineering materials used within industry. This course will also include the study of ferrous and nonferrous metals, polymers (plastics), woods, ceramics, composites, and other advanced materials.

45 Contact Hours.

EGT 205 GEOMETRIC DIMENSIONING & TOLERANCE (3)

Focuses on interpreting and applying geometric dimensioning and tolerancing (GDT) in machining or drafting per the ASME Y14.5 specification. Demonstrate and distinguish GDT through math formulas, tolerancing systems, modifiers, symbols, datums, and tolerances of form, profile, orientation, run-out and location. Students examine and interpret the generation of a working drawing, and how they are developed as a team effort between design, drafting, manufacturing and quality control.

45 Contact Hours. Prerequisite: CAD 100, EGT 101.

ELT - Electronics**ELT 106 FUNDAMENTALS OF DC/AC (3)**

Introduces the basic skills needed for many careers in electronics and related fields. Covers the operations and applications of basic DC and AC circuits consisting of resistors, capacitors, inductors, transformers and diodes. Emphasizes the use of common test instruments in troubleshooting.

68 Contact Hours. Prerequisite: MAT 108 or higher

ELT 107 FUNDAMENTALS OF INDUSTRIAL ELECTRONICS (3)

Provides a basic knowledge of generators, motors, and the solid state devices and digital techniques used for industrial control applications.

68 Contact Hours. Prerequisite: ELT 106.

ELT 147 DIGITAL DEVICES I (3)

Introduces the operation and application of gates, flip-flops, counters, shift registers, encoders-decoders and LED displays. Covers binary numbers, Boolean algebra and troubleshooting.

68 Contact Hours. Prerequisite: ELT 106.

ELT 205 ELECTRONIC TROUBLESHOOTING I (3)

Introduces basic troubleshooting techniques and skills required to analyze, troubleshoot and repair both analog and digital electronic devices.

68 Contact Hours. Prerequisite: ELT 106.

ELT 258 PROGRAMMABLE LOGIC CONTROLLERS (3)

Covers the fundamentals of programmable logic controllers (PLCs) as they are applied in robotics and automation. Includes history, terminology, typical applications, hardware and software. Incorporates lab and project activities that address operating, monitoring, programming, troubleshooting and repairing PLC controlled lab trainers as well as actual industrial equipment.

68 Contact Hours. Prerequisite: ELT 106 and ELT 147

EMS - Emergency Medical Services**EMS 115 EMERGENCY MEDICAL RESPONDER (3)**

Provides the student with core knowledge and skills to function in the capacity of a first responder arriving at the scene of an emergency, providing supportive care until advanced EMS help arrives. This course was formerly known as First Responder.

53 Contact Hours (30 lecture hours, 23 lab hours).

EMS 121 EMT FUNDAMENTALS (3)

Introduces the Emergency Medical Technician (EMT) student to prehospital emergency care. The topics included in this

course are Emergency Medical Services (EMS) systems, well-being of the EMT, communications, documentation, anatomy, airway management, and patient assessment. Student must be at least 18 years of age.

52.5 Contact Hours. Prerequisite or Corequisite: EMS 122, EMS 123, EMS 124, EMS 170.

EMS 122 EMT MEDICAL EMERGENCIES (4)

Provides the Emergency Medical Technician (EMT) student with the knowledge and skills to effectively provide emergency care and transportation to a patient experiencing a medical emergency. This course focuses on the integration of the physical exam, medical history, and pathophysiology when assessing and treating the medical patient. Student must be at least 18 years of age.

71.25 Contact Hours. Prerequisite or Corequisite: EMS 121, EMS 123, EMS 124, EMS 170

EMS 123 EMT TRAUMA EMERGENCIES (2)

Provides the Emergency Medical Technician (EMT) student with the knowledge and skills to provide appropriate emergency care and transportation of a patient who has suffered a traumatic injury. The concepts of kinematics and the biomechanics of trauma, along with pathophysiology and injury patterns will provide the student with the ability to assess and manage the trauma patient. Student must be at least 18 years of age.

37.5 Contact Hours. Prerequisite or Corequisite: EMS 121, EMS 122, EMS 124, EMS 170

EMS 124 EMT SPECIAL CONSIDERATIONS (2)

Provides the Emergency Medical Technician (EMT) student with the knowledge and skills required to modify the assessment, treatment, and transportation of special patient populations and patients in special circumstances. This course also provides an overview of incident command, mass casualty incidents, vehicle extraction, air medical support, hazardous materials, and terrorism. Student must be at least 18 years of age.

37.5 Contact Hours. Prerequisite or Corequisite: EMS 121, EMS 122, EMS 124, EMS 170

EMS 126 EMT REFRESHER (2)

Provides the student with a refresher course designed to meet their certification requirements for the state of Colorado and/or a portion of the re-certification requirements for National Registry. This course was formerly known as EMT-Basic Refresher.

36 Contact Hours. Prerequisites: Current EMT-Basic certification or National Registry less than 2 years expired or Colorado EMT/EMT-Basic Certification less than 6 months expired.

EMS 130 EMT INTRAVENOUS THERAPY (2)

Focuses on cognitive and skill practice as required by Colorado Prehospital Care program for EMT/EMT Basic level IV approval. Examines criteria, procedures and techniques for IV therapy, discusses fluid and electrolyte balance and principles and treatment for shock.

38 Contact Hours (15 lecture hours, 23 lab hours). Prerequisite: State of Colorado EMT Basic Certification required (Note: National Registry alone does not fulfill the prerequisite).

EMS 138 BASIC EMS SIMULATION LAB (3)

Integrates the knowledge and skills learned during Emergency Medical Technician (EMT) training. The participants will be exposed to the environment they will function in upon

completion of their Emergency Medical Service (EMS) education. Participants will be expected to manage all aspects of an EMS call at the basic life support level from the time of dispatch to patient transfer. This will include radio, verbal and written communications; legal and ethical issues; response activities; scene assessment and management; patient interaction, assessment, and treatment; patient disposition; and preparation for the next call. Simulations are realistic representations of calls an EMT may encounter, and are conducted in "real time". There is no verbalization of any aspect of the call. Unless a safety issue exists there is no instructor interaction with the learner until the call is complete and the debriefing session occurs. The knowledge base for this course is based on current EMT certification.

3 Credits - 45 Contact Hours.

EMS 140 ADVANCED EMS SIMULATION LAB (3)

Builds upon the knowledge gained in the basic simulation lab. The participants will be exposed to the environment they will function in upon completion of their Emergency Medical Service (EMS) education. Participants will be expected to manage all aspects of an EMS call at the advanced life support level from the time of dispatch to patient transfer. This will include radio, verbal and written communications; legal and ethical issues; response activities; scene assessment and management; patient interaction, assessment, and treatment; patient disposition; and preparation for the next call. Simulations are realistic representations of calls an advanced life support clinician may encounter, and are conducted in "real time". There is no verbalization of any aspect of the call. Unless a safety issue exists there is no instructor interaction with the learner until the call is complete and the debriefing session occurs. The knowledge base for this course is based on current EMT certification, information gained during the basic simulation lab, and knowledge and skills acquired from advanced life support classes.

3 Credits - 45 Contact Hours.

EMS 150 PEDIATRIC ED FOR PREHOSPITAL PROFESSIONALS (1)

Provides the student with core knowledge and skills necessary to provide emergency care to the pediatric patient.

22.5 Contact Hours

EMS 170 EMT CLINICAL (1)

Provides the EMT student with the clinical experience required of initial and some renewal processes. This course was formerly known as EMT-Basic Clinical.

30 Contact Hours - Prerequisite or Corequisite: EMS 121, EMS 122, EMS 123, EMS 124

EMS 180 EMT CLINICAL INTERNSHIP (2)

Provides the Emergency Medical Technician (EMT) with a supervised clinical learning experience that goes beyond the initial EMT requirements for the State of Colorado Department of Health. Enables the student to work with an assigned preceptor for 90 hours of clinical experience to develop an understanding of the role and responsibilities of the EMT/EMT-Basic.

90 Contact Hours. Prerequisites: Current EMT certification and permission of instructor.

EMS 190 EMT PROFESSIONAL DEVELOPMENT (0-12)

Provides professional development continuing medical education hours for EMT-Basics/EMTs wishing to recertify at the State or National level.

Note: See current semester schedules for credit offered. Provides additional EMT topic content that applies to National Registry renewal.

EMS 214 BASIC TRAUMA LIFE SUPPORT (1)

Provides students with information and skill practice to treat trauma patients in the pre-hospital environment.

23 Contact Hours.

EMS 220 PARAMEDIC REFRESHER (3)

Updates the EMT-P in four specific areas of pre-hospital emergency care. Includes trauma, medical, advanced life support and elective topics focused on ancillary issues in EMS.

53 Contact Hours (30 lecture hours, 23 lab hours). Prerequisite: Currently certified as an EMT-P or National Registry less than 2 years expired or Colorado EMT-Paramedic less than 6 months expired.

ENG - English

ENG 030 BASIC WRITING SKILLS (2)

Focuses on sentence and basic paragraph structure and development. Enables the student to review and improve grammar, usage, and punctuation skills while employing critical thinking strategies and the writing process to respond to a wide variety of writing situations.

30 Contact Hours. Prerequisite: Appropriate writing diagnostic scores required. Note: ESL 051 covers equivalent content.

ENG 060 WRITING FUNDAMENTALS (3)

Focuses on paragraph structure and development and introduces the formal essay. Enables the student to review and improve grammar, usage, and punctuation skills while employing critical thinking strategies and the writing process to respond to a wide variety of writing situations.

45 Contact Hours. Prerequisite: Appropriate writing diagnostic scores required or grade of "C" or better in ENG 030, or grade of "C" or better in ESL 051.

ENG 090 BASIC COMPOSITION (3)

Emphasizes critical thinking as students explore writing for specific purposes and audiences. Enables the student to develop skills required for college-level writing while reviewing paragraph structure and focusing on essay development. For students with an Accuplacer score of 70-94.

45 Contact Hours. Prerequisite: Appropriate writing diagnostic scores required or grade of "C" or better in ENG 060.

ENG 110 ENGLISH USAGE AND GRAMMAR (3)

Ensures that the student has achieved a high level of correctness, conciseness, and precision in language use and understands the principles of organizing ideas, providing adequate supporting data, and drawing logical conclusions.

45 Contact Hours.

ENG 115 TECHNICAL ENGLISH AND COMMUNICATION (3)

Focuses on the written and oral communication needs of students in vocational and technical fields. Enables the student to practice written, oral, reading, reasoning, and interpersonal communication skills in order to become successful (or to remain successful) in the workplace.

45 Contact Hours.

ENG 121 ENGLISH COMPOSITION I (3)***(GT-CO1)**

Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a minimum of five compositions that stress analytical, evaluative, and persuasive/argumentative writing. This course is one of the statewide Guaranteed Transfer courses.

45 Contact Hours. Prerequisite: Appropriate writing diagnostic scores required or grade of "C" or better in English 090.

ENG 122 ENGLISH COMPOSITION II (3)***(GT-CO2)**

Expands and refines the objectives of English Composition I. Emphasizes critical/logical thinking and reading, problem definition, research strategies, and writing analytical, evaluative, and/or persuasive papers that incorporate research. This course is one of the statewide Guaranteed Transfer courses.

45 Contact Hours. Prerequisite: ENG 121 with a grade of "C" or better.

ENG 131 TECHNICAL WRITING I (3)

Develops skills one can apply to a variety of technical documents. Focuses on principles for organizing, writing, and revising clear, readable documents for industry, business, and government.

Note: Develops computer skills to create and post HTML documents to the Web.

45 Contact Hours. Prerequisite: Completed ENG 090 with a grade of "C" or better or equivalent placement test score for college level writing.

ENG 132 TECHNICAL WRITING II (3)

Expands and refines the objectives of ENG 131, emphasizing formal presentations, both written and oral.

45 Contact Hours. Prerequisite: ENG 131 with a grade of "C" or better.

ENG 201 WRITING FOR PUBLIC DISCOURSE (3)***(GT-CO3)**

Provides students with skills necessary to enter into higher-level undergraduate academic discourse or professional workplace writing. ENG 201 extends students' rhetorical knowledge and develops critical reading, thinking and writing strategies in multiple specialized areas of discourse beyond what they encounter in ENG 122. In ENG 201, students deepen their rhetorical and writing skills by learning to analyze, synthesize, and summarize complex texts and incorporate this information into specific writing conventions for a defined discipline. As a more advanced composition course, ENG 201 provides interested students with the opportunity to continue their exploration of expository writing with the added benefit of learning to write for distinct audiences (format, language, level of specificity, length and documentation style). Students will also learn effective editing and revising techniques, discipline-specific writing strategies, and how to extend their mastery of rhetorical strategies. While ENG 201 may be taught with the focus in a variety of disciplines (science writing, gender studies, literary criticism, writing in the humanities, business writing, political geography, philosophy, and so on), every discipline will allow students the opportunity to learn how to communicate with specialized audiences and adapt content to the needs of varying rhetorical situations.

45 Contact Hours. Prerequisites: ENG 122.

ENG 215 PLAYWRITING I (3)

Enables the student to learn and practice playwriting techniques, thereby improving creative writing skills. Emphasizes elements of dramatic structure, dialogue, styles, and theatrical practices.

Recommended Preparation: ENG 221.

Note: This course may be taken as ENG 215 or THE 215 but not both. 45 Contact Hours.

ENG 221 CREATIVE WRITING I (3)

Teaches techniques for creative writing. Explores imaginative uses of language through creative genres (fiction, poetry, literary nonfiction) with emphasis on the student's own unique style, subject matter and needs.

45 Contact Hours.

ENG 222 CREATIVE WRITING II (3)

Provides continued development of written expression in such forms as poetry, fiction, and/or nonfiction writing.

45 Contact Hours. ENG 221 recommended.

ENG 226 FICTION WRITING (3)

Teaches techniques for creating fiction, including the study and appreciation of the language and forms of the short story.

45 Contact Hours.

ENG 227 POETRY WRITING (3)

Teaches techniques for creating poems, including study of figurative language, forms, and sound patterns of poetry.

45 Contact Hours.

ENG 228 WRITING FOR THE GRAPHIC NOVEL (3)

Introduces story analysis and writing concepts used in writing for the graphic novel. Students explore the graphic novel as a vehicle for a unique, personal venue for written expression. Students explore the history and universal themes of the graphic novel as well as examine the principles of composition, different writing styles and processes used in the development of the graphic novel. The application of writing skills, script development and revision processes necessary for the creation of an individual graphic work and thorough examination of course materials in terms of writing style, process considerations and written themes are the primary focus. Students create outlines, scripts and a final written work for a graphic novel, focusing on unity of style and techniques for authoring appropriate to story lines.

45 Contact Hours.

ENG 230 CREATIVE NONFICTION (3)

Teaches students to incorporate literary techniques into factual writing. Enables the student to survey a wide range of readings and analyze form and content. Includes critical review, biographical profiles, travel writing, and memoirs. Provides the opportunity for students to write and review their own nonfiction in a supportive, constructive setting.

45 Contact Hours.

ENG 236 WRITING THE FILM I (3)

Guides students in the development of a treatment, outline, and opening act for a feature film script, focusing on specific script format, ideation, film genre conceptualization, plot structure and character development. Students complete a 30-minute spec script, as well as a full treatment and outline for a feature film.

45 Contact Hours.

ENP - Entrepreneurship

ENP 105 INTRODUCTION TO ENTREPRENEURSHIP (3)

The student will evaluate the business skills and commitment necessary to successfully operate an entrepreneurial venture and review the challenges and rewards of entrepreneurship. The student will understand the role of entrepreneurial businesses in the United States and the impact on our national and global economy.

45 Contact Hours.

ENP 106 E-SHIP OPPORTUNITY FEASIBILITY STUDY (3)

Students will assess the viability of a new venture business idea to determine if the concept is feasible for business start up and long term growth based on strengths and skills, personal, professional and financial goals. The student will identify and analyze through basic research the present climate for their business idea by completing an industry, target market and competitive analysis. The student will assess the financial needs for startup as well as their own skills, strengths and talents to launch a successful business idea.

45 Contact Hours.

ENP 205 MARKETING FOR THE ENTREPRENEUR (3)

In the course, the student will gain insights essential for marketing their entrepreneurial venture utilizing innovative and financially responsible marketing strategies. Students will develop an understanding of traditional and non-traditional entrepreneurial marketing strategies. Prepare marketing strategies with associated tactics to launch and sustain an entrepreneurial venture.

45 Contact Hours.

ENP 206 ENTREPRENEURSHIP LEGAL ISSUES (3)

The student will explore legal issues related to business entities including sole proprietorship, general partnerships, limited partnerships, and corporations. Students will review contract law, articles of incorporations and the filing process, employment law (including FEPA, ADA, FMLA), personnel policies and procedures, the hiring process, job descriptions, disciplinary actions and business insurance.

45 Contact Hours.

ENP 207 ENTREPRENEURSHIP FINANCIAL TOPICS (3)

This is a comprehensive course covering financial situations for business. Financial topics will include employee benefits, retirement planning, budgeting, creation of financial statements, and learning how to work with an accounting professional. Other topics will include tax, sales and use tax, payroll tax and unemployment tax.

45 Contact Hours.

ENV - Environmental Sciences

ENV 101 INTRODUCTION TO ENVIRONMENTAL SCIENCE (4)

*(GT-SC1)

Provides an introduction to the basic concepts of ecology and the relationship between environmental problems and biological systems. Includes interdisciplinary discussions on biology, chemistry, geology, energy, natural resources, pollution, and environmental protection. Using a holistic approach, students will study how the foundations of natural sciences interconnect with the environment. This course includes laboratory experience.

90 Contact Hours.

ENY - Energy

ENY 101 INTRODUCTION TO ENERGY TECHNOLOGIES (3)

Introduces the energy technologies in use today and those that are in the research stage as possible alternatives. Presents technologies including active solar heating, passive solar heating, wind energy systems, biomass, photovoltaics, co-generation, low and high head hydro, hydrogen, geothermal, power towers and energy storage systems.

68 Contact Hours.

ENY 122 WIND ENERGY AND PHOTOVOLTAICS (3)

Prepares students for entry level, technical positions in the growing fields of wind and solar photovoltaic systems. Introduces various aspects of wind and solar photo voltaic (PV) power systems. Covers the current state of wind and PV systems in the U.S. and the world briefly. Covers the basic elements of wind power systems including wind energy mapping, site selection, wind turbine components, and power vs. speed calculations including a brief overview of electric generators and speed control. Covers basic elements and operation of photovoltaic power systems including common types of PV cell technologies, PV array structure, and the electrical properties of PV arrays. Discusses efficiency factors such as sun intensity and angle, and the shadowing. Discusses the system integration elements of wind and PV systems including batteries, basic power electronics, and off-grid and on-grid connected systems. Discusses regulatory and safety issues associated with grid-tied systems.

68 Contact Hours. Prerequisite: ELT 106.

ENY 160 MANUFACTURING AND ENERGY (3)

Exposes the student to the principles of energy and power, and basic manufacturing and various energy systems. Includes nonrenewable, renewable and inexhaustible and power systems. Includes manufacturing topics such as production planning, cost saving approaches, automation systems, and selecting appropriate materials.

45 Contact Hours. Prerequisite: MAT 108 and PHY 105

ENY 235 ENERGY SYSTEMS DESIGN (3)

Integration of energy system functions in a typical building including: codes and standards; energy economics; electrical system organization; waste heat recovery; utility system optimization; HVAC building system optimization.

68 Contact Hours. Prerequisite: ENY 101

ENY 280 INTERNSHIP (1)

Provides students with the opportunity to supplement coursework with practical work experience related to their educational program. Students work under the immediate supervision of experienced personnel at the business location and with the direct guidance of the instructor.

15 Contact Hours.

ENY 289 CAPSTONE (1-12)

A demonstrated culmination of learning within a given program of study.

15-180 Contact Hours.

ESL - English as a Second Language

ESL 011 BASIC PRONUNCIATION (3)

Provides listening and speaking activities that help students recognize and produce English vowel and consonant sounds and common stress and intonation patterns.

45 Contact Hours. Prerequisite: Appropriate placement scores.

ESL 012 INTERMEDIATE PRONUNCIATION (3)

Provides listening, speaking and reading activities that help students recognize and produce a variety of stress and intonation patterns in English. Helps students to produce problematic English sounds.

45 Contact Hours. Prerequisite: ESL 011 or appropriate placement scores.

ESL 021 BASIC GRAMMAR (3)

Assists the student in mastering basic structures in English grammar through oral and written practice.

45 Contact Hours. Prerequisite: Appropriate placement scores.

ESL 022 INTERMEDIATE GRAMMAR (3)

Reviews basic grammar and introduces intermediate structures. Provides integrated practice through a variety of oral and written exercises.

45 Contact Hours. Prerequisite: ESL 021 or appropriate placement scores.

ESL 023 ADVANCED GRAMMAR (3)

Reviews intermediate grammar. Introduces advanced structures with increased emphasis on written communication.

45 Contact Hours. Prerequisite: ESL 022 or appropriate placement scores.

ESL 031 BASIC LISTENING & SPEAKING(3)

Focuses on listening and speaking activities that help the student communicate more competently. Provides practice with pronunciation, vocabulary, and basic grammatical patterns.

45 Contact Hours. Prerequisite: Appropriate placement scores.

ESL 032 INTERMEDIATE LISTENING & SPEAKING(3)

Teaches listening, pronunciation, and conversation skills. Increases speed and accuracy in speaking through free and guided conversational practice.

45 Contact Hours. Prerequisite: ESL 031 or appropriate placement scores.

ESL 033 ADVANCED LISTENING & SPEAKING(3)

Provides students with opportunities to increase the listening and speaking skills required in academic and work situations. Emphasizes vocabulary building, listening and note-taking strategies, as well as questioning, discussion, and presentation skills.

45 Contact Hours. Prerequisite: ESL 032 or appropriate placement scores.

ESL 041 BASIC READING (3)

Improves comprehension of simple written texts through vocabulary building and reading strategies.

45 Contact Hours. Prerequisite: Appropriate placement scores.

ESL 042 INTERMEDIATE READING (3)

Helps the student read more quickly and accurately and understand a variety of intermediate level reading material.

45 Contact Hours. Prerequisite: ESL 041 or appropriate placement scores.

ESL 043 ADVANCED READING (3)

Prepares the student for academic reading assignments. Assists the student to read more accurately and critically through the development of vocabulary knowledge and reading skills. Introduces research skills.

45 Contact Hours. Prerequisite: ESL 042 or appropriate placement scores.

ESL 051 BASIC COMPOSITION (3)

Serves as an open-entry, open-exit course of study from basic to intermediate to advanced (5 levels) in speaking, listening, reading, and writing English.

Note: This class focuses only on basic composition skills. Introduces the fundamentals of writing sentences to paragraphs in a variety of verb tenses. Stresses using correct grammar for simple and complex sentences, appropriate spelling, punctuation, and capitalization.

45 Contact Hours. Prerequisite: Appropriate placement scores.

ESL 052 INTERMEDIATE COMPOSITION (3)

Introduces the fundamentals of paragraph organization and development. Assists the student in developing sentence variety and grammatical competency within well-organized paragraphs.

45 Contact Hours. Prerequisite: ESL 051 or appropriate placement scores.

ESL 053 ADVANCED COMPOSITION (3)

Reviews paragraph organization and develops the skill of writing essays using selected rhetorical modes. Emphasizes accurate use of advanced grammatical structures. Includes summarizing, paraphrasing, and research writing.

45 Contact Hours. Prerequisite: ESL 052 or appropriate placement scores.

ESL 055 COMPUTER BASICS FOR ESL STUDENTS (2)

Introduces the basic skills for computer use, including word processing, text entry, and document appearance, editing, spelling, and printing.

30 Contact Hours. Prerequisite: Appropriate placement scores or permission of instructor.

ESL 061 VOCATIONAL ESL I (3)

Teaches limited English vocational students basic communication skills in preparation for vocational training and work.

45 Contact Hours. Prerequisite: Appropriate placement scores.

ESL 062 VOCATIONAL ESL II (3)

Provides intermediate to advanced level English language learners with instruction in language skills for vocational training and employment.

45 Contact Hours. Prerequisite: ESL 061 or appropriate placement scores.

ESL 091 BASIC INTENSIVE ENGLISH (8)

Develops and strengthens oral and written communication in English for non-native speakers at the basic level by focusing on the four skills: grammar, reading, writing, and listening/speaking. Provides the first of six levels of the intensive English as a second language.

Contact hours: 20 Hours per week for 7 ½ weeks as part of Boulder County Campus' Intensive English Program. Prerequisite: Appropriate placement scores.

ESL 092 HIGH-BASIC INTENSIVE ENGLISH (8)

Develops and strengthens oral and written communication in English for non-native speakers at the high basic level by focusing on the four skills: grammar, reading, writing, and

listening/speaking. Provides the second of six levels of intensive English as a second language.

Contact hours: 20 Hours per week for 7 ½ weeks as part of Boulder County Campus' Intensive English Program. Prerequisite: Appropriate placement scores or ESL 091.

ESL 093 LOW-INTERMEDIATE INTENSIVE ENGLISH (8)

Develops and strengthens oral and written communication in English for non-native speakers at the low intermediate level by focusing on the four skills: grammar, reading, writing, and listening/speaking. Provides the third of six levels of intensive English as a second language.

Contact hours: 20 Hours per week for 7 ½ weeks as part of Boulder County Campus' Intensive English Program. Prerequisite: Appropriate placement scores or ESL 092.

ESL 094 INTERMEDIATE INTENSIVE ENGLISH (8)

Develops and strengthens oral and written communication in English for non-native speakers at the intermediate level by focusing on the four skills: grammar, reading, writing, and listening/speaking. Provides the fourth of six levels of intensive English as a second language.

Contact hours: 20 Hours per week for 7 ½ weeks as part of Boulder County Campus' Intensive English Program. Prerequisite: Appropriate placement scores or ESL 093.

ESL 095 HIGH-INTERMEDIATE INTENSIVE ENGLISH (8)

Develops and strengthens oral and written communication in English for non-native speakers at the high intermediate level by focusing on the four skills: grammar, reading, writing, and listening/speaking. Provides the fifth of six levels of intensive English as a second language.

Contact hours: 20 Hours per week for 7 ½ weeks as part of Boulder County Campus' Intensive English Program. Prerequisite: Appropriate placement scores or ESL 094.

ESL 096 LOW-ADVANCED INTENSIVE ENGLISH (8)

Develops and strengthens oral and written communication in English for non-native speakers at the low advanced level by focusing on the four skills: grammar, reading, writing, and listening/speaking. Provides the sixth of six levels of intensive English as a second language.

Contact hours: 20 Hours per week for 7 ½ weeks as part of Boulder County Campus' Intensive English Program. Prerequisite: Appropriate placement scores or ESL 095.

ETH - Ethnic Studies

ETH 200 INTRODUCTION TO ETHNIC STUDIES (3)

***(GT-SS3)**

Introduces students to the issues of race and ethnicity. Emphasizes ethnic relations in the United States as it pertains to four major groups: Americans of African, Asian, Latino and Native descent. Explores issues of racial and ethnic identity, racism and discrimination, stereotyping, prejudice, segregation, colonialism, integration and acculturation.

45 Contact Hours.

ETH 212 AFRICAN-AMERICAN STUDIES (3)

Explores in-depth introduction of Africans to the colonies and historical developments through modern-day America. Focuses on the decisions and choices that have impacted African-Americans through contemporary times.

45 Contact Hours.

ETH 224 INTRODUCTION TO CHICANO STUDIES (3)

Introduces students to skills development in multicultural education. Covers Chicano history, migration and labor, education, law and Chicano culture.

45 Contact Hours.

FIN - Finance

FIN 201 PRINCIPLES OF FINANCE (3)

Provides factual knowledge of financial institutions and the monetary system used in the United States in relationship to the global economy. Examines tools and techniques such as capital budgeting, time value of money, analysis of financial statements, cost of capital, and risk analysis to analyze business decisions, plan and determine project and firm value, and evaluate sources of financing.

45 Contact Hours.

FLD - Floral Design

FLD 100 INTRODUCTORY FLORAL DESIGN (3)

Teaches students working in the floral design industry a working knowledge of retail flower shop management & procedures. Introduces students to the basic principles and elements of floral design that can be used for personal or professional industry applications. Students also learn basic care and identification of fresh flowers, design, purchasing, and pricing of various types of floral compositions.

53 Contact Hours.

FLD 200 ADVANCED FLORAL DESIGN (3)

Focuses on advanced floral design concepts and techniques including special event, wedding and sympathy arrangements.

53 Contact Hours.

FLD 289 CAPSTONE (4)

Focuses on a demonstrated culmination of learning within the floral design program of study.

90 Contact Hours.

FRE - French

FRE 101 CONVERSATIONAL FRENCH I (3)

Introduces beginning students to conversational French and focuses on understanding and speaking French. Covers basic vocabulary, grammar, and expressions that are used in daily situations and in travel.

45 Contact Hours.

FRE 102 CONVERSATIONAL FRENCH II (3)

Continues the sequence for beginning students who wish to understand and speak French. Covers basic conversational patterns, expressions, and grammar.

45 Contact Hours. Recommended Preparation: FRE 101 or equivalent.

FRE 111 FRENCH LANGUAGE I (5)

Develops students' interpretive, interpersonal, and presentational communicative abilities in the language. Integrates these skills in the cultural contexts in which the language is used. Offers a foundation in the analysis of culture.

75 Contact Hours.

FRE 112 FRENCH LANGUAGE II (5)

Expands students' interpretive, interpersonal, and presentational communicative abilities in the language across the disciplines. Integrates these skills with the study of the cultures in which the language is used. Offers a foundation in the analysis of culture and develops intercultural communicative strategies.

75 Contact Hours. Recommended Preparation: FRE 111 or equivalent.

FRE 201 CONVERSATIONAL FRENCH III (3)

Continues the sequence for students who wish to continue their study of understanding and speaking French. Covers intermediate level vocabulary, grammar, and expressions.

45 Contact Hours. Recommended Preparation: FRE 102 or equivalent.

FRE 202 CONVERSATIONAL FRENCH IV (3)

Continues the sequence for students who wish to advance their study of understanding and speaking French. Covers intermediate level conversational patterns, expressions, and grammar.

45 Contact Hours. Recommended Preparation: FRE 201 or equivalent.

FRE 211 FRENCH LANGUAGE III (3)

*(GT-AH4)

Continues French I and II in the development of increased functional proficiency in listening, speaking, reading and writing the French language. Note: The order of the topics and the methodology will vary according to individual texts and instructors.

45 Contact Hours. Required Preparation: FRE 112 or equivalent.

FRE 212 FRENCH LANGUAGE IV (3)

*(GT-AH4)

Continues French I, II and III in the development of increased functional proficiency in listening, speaking, reading and writing the French language. Note: The order of the topics and the methodology will vary according to individual texts and instructors.

45 Contact Hours. Required Preparation: FRE 211 or equivalent.

FSW - Fire Science Wildland**FSW 100 S-190 INTRODUCTION TO WILDLAND FIRE (1)**

Provides instruction in the primary environmental factors that affect the start and spread of wildfire and recognition of potentially hazardous situations. This course must be taken concurrently with FSW 101 Firefighting Training S-130. You must also sign up for FSW 101 S130 to qualify for a red card.

15 Contact Hours.

FSW 101 S-130 FIREFIGHTING TRAINING (2)

Provides entry-level firefighter skills. A version of the L-180, Human Factors on the fireline, is included as part of the course. Credit will be issued for S-130. This course must be taken concurrently with FSW 100. You must also take FSW 100 S-190 to qualify for a red card.

30 Contact Hours.

FSW 143 S-212 WILDFIRE CHAIN SAWS (2)

Provides introduction to the function, maintenance and use of internal combustion, engine-powered chain saws and their tactical wildland fire application. Modules support entry-level training for firefighters with little or no previous experience in operating a chain saw and provides hands-on cutting in surroundings similar to fireline situations. Must have S190 and S130 certifications or currently be enrolled in FSW 100 and FSW 101.

30 Contact Hours.

GEO - Geography**GEO 105 WORLD REGIONAL GEOGRAPHY (3)**

*(GT-SS2)

Facilitates an understanding of spatial relationships between and among the geographic regions of the world. Includes demographic and cultural (political, economic, and historic) forces related to the physical environments of selected regions. Focuses on analysis of interrelationships between developed and developing regions, and the interactions between human societies and natural environments.

45 Contact Hours.

GEO 106 HUMAN GEOGRAPHY (3)

*(GT-SS2)

Introduces geographic perspectives and methods with applications to the study of human activities. Emphasizes the distribution of humans, adjustments to the natural environment, and land use practices.

45 Contact Hours.

GEO 111 PHYSICAL GEOGRAPHY-LANDFORMS (4)

*(GT-SC1)

Introduces the principles of landforms as a major aspect of our natural environment. Incorporates an integrated process of lecture, discussion, and laboratory assignments.

75 Contact Hours.

GEO 112 PHYSICAL GEOGRAPHY-WEATHER AND CLIMATE (4)

*(GT-SC1)

Introduces the principles of meteorology, climatology, world vegetation patterns, and world regional climate classification. Incorporates an integrated process of lecture, discussion, and laboratory assignments and may be transferred to colleges and universities as a science credit.

75 Contact Hours.

GEO 165 HUMAN ECOLOGY (3)

Provides a current outlook for the global environment, describing the threats imposed on different natural ecological systems. Enables the student to develop a set of intellectual tools and ways of thinking about the environment to evaluate for themselves how serious a given environmental problem will be.

45 Contact Hours.

GEO 200 GEOGRAPHY OF EUROPE (3)

Focuses on a comprehensive study of European geography including physical, historical, agricultural, industrial, cultural and political geographic inter-relationships. Incorporates a broad overview of the forces and trends that have shaped modern Europe.

45 Contact Hours.

GER - German

GER 101 CONVERSATIONAL GERMAN I (3)

Introduces beginning students to conversational German and focuses on understanding and speaking German. Covers basic vocabulary, grammar, and expressions that are used in daily situations and in travel.

45 Contact Hours.

GER 102 CONVERSATIONAL GERMAN II (3)

Continues the sequence for students who wish to understand and speak German. Covers basic patterns, expressions, and grammar.

45 Contact Hours. Recommended Preparation: GER 101.

GER 111 GERMAN LANGUAGE I (5)

Develops students' interpretive, interpersonal, and presentational communicative abilities in the language. Integrates these skills in the cultural contexts in which the language is used. Offers a foundation in the analysis of culture.

75 Contact Hours.

GER 112 GERMAN LANGUAGE II (5)

Expands students' interpretive, interpersonal, and presentational communicative abilities in the language across the disciplines. Integrates these skills with the study of the cultures in which the language is used. Offers a foundation in the analysis of culture and develops intercultural communicative strategies.

75 Contact Hours. Recommended Preparation: GER 111.

GER 201 CONVERSATIONAL GERMAN III (3)

Continues the sequence for students who wish to advance their study of understanding and speaking German. Focuses on intermediate level vocabulary, grammar, and expressions.

45 Contact Hours. Recommended Preparation: GER 102.

GER 202 CONVERSATIONAL GERMAN IV (3)

Continues the sequence for students who wish to advance their study of understanding and speaking German. Focuses on intermediate level conversational patterns, expressions, and grammar.

45 Contact Hours. Recommended Preparation: GER 201.

GER 211 GERMAN LANGUAGE III (3)

*(GT-AH4)

Continues German Language I and II in the development of increased functional proficiency in listening, speaking, reading and writing the German language.

45 Contact Hours. Recommended Preparation: GER 112.

GER 212 GERMAN LANGUAGE IV (3)

*(GT-AH4)

Continues German Language I, II and III in the development of increased functional proficiency in listening, speaking, reading and writing the German language.

45 Contact Hours. Recommended Preparation: GER 211.

GER 235 GERMAN READING-WRITING (3)

Enables the student to build vocabulary and develop reading and writing strategies in German to analyze fictional and non-

fictional texts and gain further cultural insight of the German world.

45 Contact Hours. Recommended Preparation: GER 212.

GEY - Geology

GEY 111 PHYSICAL GEOLOGY (4)

*(GT-SC1)

Studies the materials of the earth, its structure, surface features and the geologic processes involved in its development. This course includes laboratory experience.

90 Contact Hours (45 lecture hours, 45 lab hours).

GEY 112 HISTORICAL GEOLOGY (4)

*(GT-SC1)

Studies the physical and biological development of the earth through the vast span of geologic time. Emphasizes the investigation and interpretation of sedimentary rocks, the record of ancient environments, fossil life forms, and physical events, all within the framework of shifting crustal plates. Course includes laboratory experience.

90 Contact Hours (45 lecture hours, 45 lab hours). Prerequisite: GEY 111.

GEY 135 ENVIRONMENTAL GEOLOGY (4)

*(GT-SC1)

Introduces geology and its relationship to man's environment. Covers geologic hazards such as floods, landslides, avalanches, earthquakes and volcanoes. Focuses on surface and groundwater resources in terms of exploitation and man's responsibility to protect these resources from contamination. The geologic aspects of land use practices, as well as mineral and energy resource exploitation are reviewed and related to legislation regarding environmental law.

90 Contact Hours.

GEY 205 THE GEOLOGY OF COLORADO (3)

Covers the geologic history of Colorado, with emphasis on formation of mountain ranges, igneous, sedimentary and metamorphic rock types, ore deposits and landforms.

Incorporates field experience and/or classroom lectures.

45 Contact Hours. Prerequisite: Permission of instructor.

GEY 208 GEOLOGY FIELD TRIP (3)

Involves in-depth field studies into the geology of specific regions both within and outside Colorado. Trips lasting from one to several days' length to study the area constitute the major activity of the course. The specific area of investigation is indicated in the schedule of classes each time the course is offered.

114 Contact Hours. Prerequisite: Permission of instructor.

See the list of Specialized Geology Courses on the first page of this Course Offerings section.

GEY 275 SPECIAL TOPICS (1-3)

Presents an overview of the special topic including one aspect of the earth and its history as recorded in rocks and rock formations. May also include current changes and impact of historical events and exploration of current topics, issues and activities related to one or more aspects of the named discipline.

15 Contact Hours per credit.

GIS - Geographic Information Systems

GIS 101 INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS (3)

Survey the development, application and use of geographic information systems (GIS).

67.5 Contact Hours. Prerequisites: None.

GIS 110 INTRODUCTION TO CARTOGRAPHY (3)

Examines a broad range of map types, emphasizing maps as a communication system with both symbology and specific organizational hierarchies. Discussion and demonstration focuses on essential cartographic principles and practices used for designing maps, with emphasis on cartographic principles resulting in the effective map communication, qualitative messages, and quantitative information.

67.5 Contact Hours

GIS 150 RELATIONAL DATABASE MANAGEMENT SYSTEMS FOR GIS(3)

Develop methods and procedures for geographic information systems data, data management, and the complex relationships between data files and a GIS. This course teaches several essential components and methods of successful data and project data management. The objective is to give students a basic understanding of databases, how they are used in a professional GIS environment, and practical experience in designing and implementing the GIS database.

67.5 Contact Hours. Prerequisites: GIS 101 and GIS 110.

GIS 165 GIS PROJECT MANAGEMENT (3)

Examine the relationships of geographic information systems projects to information technologies for organization planning and decision making. Course considers project business process, project management methods and roles of project participants.

67.5 Contact Hours. Prerequisites: GIS 101 and GIS 110.

GIS 205 GIS APPLICATIONS (3)

Develop competency in web based geospatial information technologies. This course introduces students to concepts and processes of software based geospatial services to deliver geospatial information over networks. The course provides a comprehensive discussion of theory and applied technology of GIS software information services as well as integration of geospatial services into GIS applications.

67.5 Contact Hours.

GIS 210 INTERMEDIATE GEOGRAPHIC INFORMATION SYSTEMS (3)

Build on the spatial analysis principles and concepts of GIS 101. Students work with advanced analytical tools and develop skills in spatial problem solving.

67.5 Contact Hours. Prerequisite: GIS 101

GIS 211 SPATIAL DATA MODELING AND ANALYSIS (4)

Examine techniques for modeling and analyzing spatial data in a GIS. Topics include defining object models and geodatabases as they are used to access geographic data and build data models, creating new information from existing data through data classification, geoprocessing, presentation, and display and using raster analysis to display and analyze spatial data.

90 Contact Hours. Prerequisite: GIS 210.

GIS 212 REMOTE SENSING AND DIGITAL IMAGE PROCESSING (4)

Introduce concepts and procedures used in remote sensing with an emphasis on integration of aerial and satellite imagery into GIS applications. Apply the science of remote sensing and imagery interpretation to global earth observation characteristics based on remotely sensed data and logical interpretation.

90 Contact Hours. Prerequisite: GIS 101. Corequisite: GIS 101.

GIS 221 COMMUNITY ASSESSMENT AND ANALYSIS (3)

Examine significant problems currently facing a variety of community public and private institutions and explore a variety of ways these problems can be analyzed using a GIS. Course focuses on GIS analysis and comparative indicators for cities.

67.5 Contact Hours.

HHP - Holistic Health Professional

Please see the list of Massage Therapy courses in the MST catalog section.

HHP 100 COMPLEMENTARY HEALING METHODS (1)

Explores some of the more widely used alternative/complementary healing methods. Expands the student's health horizons and enables the student to converse in a knowledgeable manner with patients and practitioners.

15 Contact Hours. Prerequisite: ENG 090

HHP 107 MANAGING LIFE'S STRESSES (1)

Work with energy, confidence and enthusiasm in your life by learning specific skills that will give you control over stressful situations or people in your life. This experiential class is designed for all who are interested in a higher quality of life and want to reach their full potential. Learn how to relax quickly, improve self-image, improve concentration, and how to control your worry. You can experience freedom from old patterns that create stress, fatigue and restricting beliefs.

15 Contact Hours.

HHP 111 HERBOLOGY I (1)

Explores the pharmacokinetics and composition of herbs and their effect on the body systems. Focuses on the habitat, harvesting, storage and usage of a select group of herbs. The use of herbs in health maintenance and the healing of disease predates written history. Herbs have been found by archeologists in Paleolithic burials and throughout literature on the ancient Chinese and Egyptians verified by modern scientific research.

15 Contact Hours.

HHP 112 HOMEOPATHY (1)

Presents a basic overview in the fundamentals, principles, and history of homeopathy. Conditions that can be helped using homeopathic remedies will be discussed, and remedies that are appropriate for acute and first aid conditions will be presented. Common case taking techniques will be taught.

15 Contact Hours.

HHP 122 QIGONG (1)

Emphasizes the application of the 18 soft exercises found in Qigong to help relax, increase strength, agility and vitality while calming the mind.

15 Contact Hours.

HHP 130 REIKI LEVEL ONE (1)

Explores the traditional Usui use of Reiki. Covers the history and development of Reiki work, beginning in Japan, to Hawaii, to the U.S., and later Europe. Focuses on the fundamental beliefs and the dynamics of the Reiki process. Enables each student to receive Reiki attunements to prepare for the Reiki energy work. Each class member gives and receives a Reiki hands-on treatment session.

15 Contact Hours. Prerequisite: ENG 090

HHP 142 INTRO TO TRADITIONAL CHINESE MEDICINE (3)

Introduces the theories and practice of Traditional Chinese Medicine (TCM), an ancient medical art. Basic theories are discussed, differentiation skills are practiced and treatment modalities are demonstrated.

45 Contact Hours. Prerequisite: ENG 090

HHP 144 THERAPEUTIC APPLICATIONS OF THE HUMAN-ANIMAL BOND (1)

Explores the concept of the human-animal bond and a variety of therapeutic applications of such a bond. Focuses on the health benefits of pet ownership, pets in the workplace, animal-assisted activity and animal-assisted therapy.

15 Contact Hours.

HHP 145 DIGESTIVE WELLNESS (1)

Provides the student with information on nutritional and herbal self-care treatments.

15 Contact Hours.

HHP 150 INTERSPECIES COMMUNICATION (1)

Explores interspecies communication as a means of listening deeply to what the animals want to relate to people and speaking back in a way they can understand. Focuses on interspecies communication that can be applied to a number of situations including: healing emotional issues, for both animals and people; uncovering root causes of disease; supporting an animal's death process; helping people choose new pets and bringing harmony into relationships between people and their pets.

15 Contact Hours.

HHP 152 ANIMAL MASSAGE (1)

Introduces an understanding of canine and feline massage, including surface anatomy, blood flow direction, body language, and massage techniques for general relaxation and sports massage. Includes hands-on application.

15 Contact Hours.

HHP 153 ACUPRESSURE TAP TECHNIQUES I(1)

Introduces the theory and practical application of light finger tapping on meridian end points used in traditional Chinese acupuncture. This course offers hands-on instruction emphasizing identifying, assessing, balancing, and clearing the mind-body energy system in self and others.

15 Contact Hours.

HHP 154 ACUPRESSURE TAP TECHNIQUES II (1)

Allows the student who has completed Acupressure Tapping Techniques I (EFT 1) to gain advanced experience with light finger tapping on meridian end points used in traditional Chinese acupuncture. This course offers an expansion of Level

1 material including additional clearing points, gentle techniques for trauma, clearing limiting beliefs, finding core issues, surrogate tapping, and working with groups.

15 Contact Hours. Prerequisite: HHP 153

HHP 160 LEARN TO MEDITATE (0.5)

Focuses on techniques to meditate and explores the life-enhancing benefits of meditation.

8 Contact Hours.

HHP 161 MEDITATION FOR HEALTH (1)

Incorporates the practice of fundamental techniques for training your mind to be quiet and peaceful; to focus your thoughts on what you choose; to stimulate the Mind-Body conversation to enhance your own health.

15 Contact Hours.

HHP 164 INTRODUCTION TO HAND REFLEXOLOGY (1)

Teaches hand anatomy, basic stroke techniques and hand reflex points. Reflexology is a gentle art that holistically facilitates opening the channels for healing energy to circulate to all parts of the body. The benefits of reflexology include stress reduction and deep relaxation, improved circulation, cleansing of body toxins and impurities, energy revitalization and preventative health care.

15 Contact Hours. Prerequisite: HHP 166

HHP 166 INTRODUCTION TO REFLEXOLOGY (1)

Teaches the student foot anatomy, basic hand stroke and foot reflex points.

15 Contact Hours.

HHP 169 INTRODUCTION TO HEALING HANDS AND FEET (1)

Studies combining the gentle healing hand energy work and gentle foot massage of reflexology in order to bring harmony to the body, mind, spirit, and emotions. Students will be provided with the knowledge of how to combine these healing modalities in their healing practice. Seven major energy chakras, how they affect our own self healing, and the four energy fields that surround us will be explored.

15 Contact Hours. Prerequisite HHP 164 and HHP 166

HHP 190 CRYSTAL AND MINERAL USAGE IN HEALTH CARE (0.5)

Introduces the student to crystal and mineral types, their properties and how to clear, clean, and use the personal use or with clients. Incorporates hand-on experience to feel the different energies of crystals and minerals.

8 Contact Hours.

HHP 200 BACH'S ESSENCES: HEALTH THROUGH MENTAL HARMONY (2)

Introduces students to the concepts of energy work and complementary healing modalities that impact health and wellness. This class will aid students in identification of the impact of stressors on health, and through identification of stressors, aid them in restoring balance and harmony to their lives, by application of appropriate essences.

30 Contact Hours.

HHP 204 APPLIED AROMATHERAPY (3)

Examination of aromatherapy will be implemented from a holistic view. How different practitioners use this healing art will also be studied, including aromatherapists, medical

practitioners, nurses, counselors, psychologists, massage therapists, herbalists and manufacturers of perfume. Current research on essential oils will be covered, and how this research is advancing the practical applications of aromatherapy. This course will also explore holistic factors in aromatherapy, among them the spiritual, biological, social and environmental sectors.

45 Contact Hours. Prerequisite: ENG 090

HHP 208 ADVANCED MUSCULOSKELETAL ANATOMY (2)

Presents an intensive study of the musculoskeletal system. Focus will be on understanding the bony structures and the relationship of the muscular system to the skeletal system from a dynamic perspective. Classes include lecture and work with the Maniken system building muscles with clay on a scaled down and anatomically accurate skeleton. Clinical connections will be made to take the study of anatomy out of the purely technical arena, and into the practical. The other nine systems of the body will be touched on briefly, because to clinically understand the practical applications of anatomy, you have to be aware of the interconnectedness of all the systems of the body.

30 Contact Hours. Prerequisite: HPR 117

HHP 211 HERBOLOGY II (2)

Continues Herbiology I (HHP 111) and explores the advanced usage of herbs in prevention and treatment of disease. The exploration of pharmacokinetics, composition of herbs, and effects on the body will also be explored.

30 Contact Hours. Prerequisite: HHP 111

HHP 223 JIN SHIN LEVEL I (2)

Jin Shin provides basic understanding of the human energy system from an Asian perspective. Jin Shin is non-invasive, performed with light touch on various acupoints on the body. Enables the student to learn to identify, access, open and balance the energy of self and others within the Jin Shin system. Four Jin Shin sessions are given and received.

30 Contact Hours.

HHP 224 INTRODUCTION TO MASSAGE THERAPY (1)

Teaches hands-on techniques to complete a full body massage along with integration of healing touch. Swedish massage techniques and basic foot reflexology combined with a complete energy balance are performed and experienced by each student.

15 Contact Hours.

HHP 225 EXPANDED CONCEPTS OF MASSAGE (1)

Builds on techniques learned during Introduction to Massage. Includes application of massage techniques with special populations. Examines related basic therapeutic approaches such as hydrotherapy and acupressure. Considerations for developing professional practice are also addressed.

15 Contact Hours. Prerequisite: HHP 224

HHP 229 WELLNESS COUNSELING (1)

Provides the tools to facilitate oneself and others in the movement towards wellness. Enables the student to learn assessment skills, basic counseling skills, establishing contacts and goals for change.

15 Contact Hours.

HHP 230 JIN SHIN LEVEL II (2)

Allows the student who has completed HHP 223 to gain advanced experience with this hands-on non-invasive Chinese technique. An expansion of Jin Shin Level One material includes how to read combination pulses and to do flows that balance the body at deeper levels. At the end of Jin Shin Level Two the students will be able to take pulses and administer a full session of Jin Shin to themselves and others. A certificate will be issued to passing students that will place them at Jin Shin Practitioner status within the High Touch Jin Shin Network.

30 Contact Hours. Prerequisite: HHP 223

HHP 234 THE SACRED WILD (1)

Assists the student in reconnecting with the inner and outer landscapes of the sacred wild. This is a newly emerging field of ecopsychology that explores the depth and breadth of this deep primordial connection.

15 Contact Hours.

HHP 242 HEALING TOUCH LEVEL I (1)

Healing Touch is an energy-based therapeutic approach to healing. Enables the student to develop and use touch as a means of assessing a clients/patients state of wellness through the intentional use of touch. Participants are given specific instructions in developing touch sensitivity and practice the assessment and healing methods. Healing Touch is a multi-level program that moves from beginning to advanced practice. After completion of Level 3, a person is eligible to apply for certification as a healing touch practitioner.

15 Contact Hours.

HHP 243 HEALING TOUCH LEVEL II (1)

Allows the person who has completed Healing Touch Level I to gain the specific skills necessary to become an advanced practitioner. Emphasizes experiential learning and focuses on developing healing sequences for specific client needs. Back techniques are introduced, and the therapeutic interactions for specific emotional and physiological problems are discussed and practiced.

15 Contact Hours. Prerequisite: HHP 242.

HHP 244 HOLISTIC HEALTH LEVEL I (1)

This course is an introduction to holistic philosophy, theory, and practice and how it integrates into the art and science of caring and healing. It involves conscious application of self-responsibility, caring, human development, stress reduction life styling, communication, problem solving, teaching/learning, leadership and change. These topics are approached holistically, through preventative, nurturing and generative activities in order to help clients move toward high-level wellness. Application of holistic health concepts to everyday practice in self-assessment, self-care and self-direction is encouraged.

15 Contact Hours. Prerequisite: ENG 090

HHP 245 HEALING TOUCH LEVEL III (1)

Includes further development of Higher Sense Perception (HSP), sequencing of healing techniques, working with guidance, self healing, self development, learning about other healers and advanced healing methods. Level III Healing Touch is for students who have completed Level I and Level II and desire more inn-depth experience.

15 Contact Hours. Pre-requisites HHP 242 and HHP 243

HHP 246 SECOND DEGREE REIKI (1)

Teaches the learning and meaning of the three traditional Usui symbols. Incorporates in-depth discussion about application of the three symbols. Students learn about the necessary preparation of a Reiki therapist in offering treatments. One attunement is given to each student. Each member gives and receives a Reiki treatment session, utilizing the three Reiki symbols. Long Distance and Mental Reiki processes are learned. Reiki Therapist Certification available upon completion.

15 Contact Hours. Prerequisite: HHP 130

HHP 249 JOURNALING THE HEALING JOURNEY (1)

Incorporates using a journal as an effective tool for looking at our personal growth process, as well as for helping clients in their healing process. Journaling helps develop memory, imagination, feeling, intuition, and other creative aspects of ourselves. Using a journal in health practices can accelerate the healing process for clients. Teaches journaling skills and how to focus specifically on healing through various techniques.

15 Contact Hours.

HHP 250 TEACHER TRAINING INSTITUTE FOR YOGA (10)

Covers the requirements to be professional Hatha Yoga teachers. Enables participants to understand and practice Yoga and develop skills to teach a wide variety of people in various settings.

225 Contact Hours.

HHP 254 HOLISTIC HEALTH LEVEL II (2)

Using the basic theory of Holistic Health I, this course provides a more comprehensive study of modalities used to strengthen the whole person in the process of facilitating healing and maintaining optimal health. The application of holistic health concepts and body-mind responses are used as guides for each modality studied. Discussion of the holistic therapeutic relationship is included.

30 Contact Hours. Prerequisite: HHP 244.

HHP 256 HOLISTIC HEALTH LEVEL III (2)

Builds on the basic theory introduced in Holistic Health Level II and provides a more comprehensive study of modalities to strengthen the whole person in the process of facilitating and maintaining optimal health.

30 Contact Hours. Prerequisite: HHP 244 and HHP 254.

HHP 258 JOURNALING THE SPIRITUAL JOURNEY (1)

Incorporates the spiritual journal as a tool for people to explore who they are and what they believe about their purpose. Spiritual writing expands the consciousness and the universe responds by using writing as a channel to interact and guide the direction of people's lives. Focuses on connecting with the spiritual nature of people and provides tools for personal growth and for assisting others on the journey to spiritual wholeness.

15 Contact Hours.

HHP 260 ADVANCED REFLEXOLOGY (1)

Incorporates a hands-on approach with an emphasis on developing techniques. Continues the basic reflexology class and allows the student to work on hand positions and address specific techniques for specific issues.

15 Contact Hours. Prerequisite: HHP 164, HHP 166, and HHP 169.

HHP 262 PSYCHONEUROIMMUNOLOGY (0.5)

Studies the inter-relationship of the body-mind connection. Explores the physiological and psychological interaction between the brain, the immune system and the endocrine system.

8 Contact Hours.

HHP 263 CREATING A HOLISTIC BUSINESS PRACTICE (2)

Focuses on the necessary skills for a holistic practitioner to start an independent practice. Includes self-assessment of professional skills, the business plan for marketing, finances, an environmental scan, required paperwork to file with the State of Colorado, and the actual design of the practice.

30 Contact Hours.

HHP 264 ADVANCED AROMATHERAPY FOR CERTIFICATE (4)

Incorporates previous introductory learning in Aromatherapy and leads to a higher level of understanding for persons interested in utilizing Aromatherapy as a healing modality in practice. This course prepares the student to use essential oils in a safe and therapeutic method and to develop careers in Aromatherapy or as a complement to existing practices. The student will learn how to consult with clients, perform evaluations, recommend appropriate oils and how to apply them in a safe manner.

60 Contact Hours. Prerequisite: HHP 204.

HHP 265 GIFT OF SELF-ESTEEM (1)

Explores self-talk, self-appreciation, self-responsibility, belief, expectations and provides tools for increasing personal power.

15 Contact Hours.

HHP 269 HEALING PRESENCE (1)

Provides the opportunity to explore the meaning of presence through the process of increased self-awareness and self-discovery, as well as development of essential skills for connecting on a higher level with oneself and others.

15 Contact Hours.

HIS - History**HIS 101 WESTERN CIVILIZATION: ANTIQUITY-1650 (3)**

***(GT-HI1)**

Explores a number of events, peoples, groups, ideas, institutions, and trends that have shaped Western Civilization from the prehistoric era to 1650. Reflects the multiple perspectives of gender, class, religion, and ethnic groups. Focuses on developing, practicing, and strengthening the skills historians use while constructing knowledge in this discipline.

45 Contact Hours.

HIS 102 WESTERN CIVILIZATION: 1650-PRESENT (3)

***(GT-HI1)**

Explores a number of events, peoples, groups, ideas, institutions, and trends that have shaped Western Civilization from 1650 to the present. Reflects the multiple perspectives of gender, class, religion, and ethnic groups. Focuses on developing, practicing, and strengthening the skills historians use while constructing knowledge in this discipline.

45 Contact Hours.

HIS 111 THE WORLD: ANTIQUITY-1500 (3)***(GT-HI1)**

Explores a number of peoples, groups, ideas, institutions, and trends that have shaped World History from the prehistoric era to 1500. Reflects the multiple perspectives of gender, class, religion, and ethnic groups in a broad global sense. Focuses on the common denominators among all people. This approach goes beyond political borders to provide a better appreciation for different cultures. Focuses on developing, practicing, and strengthening the skills historians use while constructing knowledge in this discipline.

*45 Contact Hours.***HIS 112 THE WORLD: 1500-PRESENT (3)*****(GT-HI1)**

Explores a number of peoples, groups, ideas, institutions, and trends that have shaped World History from 1500 to the present. Reflects the multiple perspectives of gender, class, religion, and ethnic groups in a broad global sense. Focuses on the common denominators among all people. This approach goes beyond political borders to provide a better appreciation for different cultures. Focuses on developing, practicing, and strengthening the skills historians use while constructing knowledge in this discipline.

*45 Contact Hours.***HIS 201 U.S. HISTORY TO RECONSTRUCTION (3)*****(GT-HI1)**

Explores events, trends, peoples, groups, cultures, ideas, and institutions in North America and United States history, including the multiple perspectives of gender, class, and ethnicity, between the period when Native American Indians were the sole inhabitants of North America, and the American Civil War. Focuses on developing, practicing, and strengthening the skills historians use while constructing knowledge in the discipline.

*45 Contact Hours.***HIS 202 U.S. HISTORY SINCE THE CIVIL WAR (3)*****(GT-HI1)**

Explores events, trends, peoples, groups, cultures, ideas, and institutions in United States History, including the multiple perspectives of gender, class, and ethnicity, between the period of the American Civil War and the present. Focuses on developing, practicing, and strengthening the skills historians use while constructing knowledge in the discipline.

*45 Contact Hours.***HIS 207 AMERICAN ENVIRONMENTAL HISTORY (3)****(GT-HI1)**

Traces and analyzes the relationships between Americans and their natural environments throughout the history of the United States. Environmental history interprets the changing ways diverse people have used and viewed their environments over time. Examines the development of conservation movements and environmental policies in modern America.

*45 Contact Hours.***HIS 208 AMERICAN INDIAN HISTORY (3)*****(GT-HI1)**

Analyzes historical and social-cultural change for the Native Americans from pre-colonial America to the present, emphasizing those processes and relations with non-Native Americans that have contributed to the current conditions.

*45 Contact Hours.***HIS 209 HISTORY OF THE AMERICAN SOUTHWEST (3)**

Traces and analyzes the cultural and historical development of what is now the southwestern United States; a region defined most by its arid environment and the cultural and political interactions of Southwest Indians, Spanish conquerors, Mexican settlers, late-coming Yankees, artist and artisans and modern Sunbelt migrants.

*45 Contact Hours.***HIS 215 WOMEN IN U.S. HISTORY (3)*****(GT-HI1)**

Examines women's changing roles in American history from the pre-colonial native population to the present. Emphasizes the nature of women's work and the participation of women in the family, political, religious, and cultural activities and in social reform movements.

*45 Contact Hours.***HIS 225 COLORADO HISTORY (3)*****(GT-HI1)**

Presents the story of the people, society, and cultures of Colorado from its earliest Native Americans, through the Spanish influx, the explorers, the fur traders and mountain men, the gold rush, railroad builders, the cattlemen and farmers, the silver boom, the tourists, and the modern state.

*45 Contact Hours.***HIS 235 HISTORY OF THE AMERICAN WEST (3)**

Traces the history of the American West, from the Native American cultures and the frontier experiences of America's earliest, eastern settlers, through the Trans-Mississippi West, across the great exploratory and wagon trails, and up to the present West, be it urban, ranching, reservation, resource management, or industrial. Emphasizes the north and central parts of the West.

*45 Contact Hours.***HIS 236 U.S. HISTORY SINCE 1945 (3)*****(GT-HI1)**

Focuses on the major political, economic, social, and cultural developments that have shaped modern America from 1945 to the present.

*45 Contact Hours.***HIS 243 HISTORY OF MODERN CHINA (3)*****(GT-HI1)**

This course traces the political, ideological, economic, religious, social, and cultural developments of modern China from the Qing dynasty through the political and economic revolutions of the 20th century.

*45 Contact Hours.***HIS 244 HISTORY OF LATIN AMERICA (3)*****(GT-HI1)**

Focuses on the major political, economic, social, and cultural influences that have shaped Latin America from pre-European conquest to the present. Emphasizes the early history of Latin America but connects it to the present.

45 Contact Hours.

HIS 245 US IN THE WORLD (3)***(GT-HI1)**

Focuses on major themes of United States history in the context of worldwide historical phenomena, including global contacts and exchange, colonial frontiers and international trade, America's influence on the age of revolutions, industrialization and movement of populations, urbanization and rural change, and expansion of state power and rise of social movements. Through readings and discussions on problems in political, social, public and personal history, students will gain an understanding of historical processes and methodology and will learn how to use critical historical analysis in order to achieve a greater perspective on the US's role in world history.

*45 Contact Hours.***HIS 246 HISTORY OF MEXICO (3)**

Focuses on the major political, economic, social, and cultural developments of Mexico from Pre-Columbian times to the present.

*45 Contact Hours.***HIS 247 20TH CENTURY WORLD HISTORY (3)*****(GT-HI1)**

Investigates the major political, social, and economic developments, international relationships, scientific breakthroughs, and cultural trends that have shaped the various global regions and nation-states from 1900 to the present. Emphasizes the interactions of global regions and nation-states.

*45 Contact Hours.***HIS 248 HISTORICAL ROOTS OF MODERN RUSSIA (3)**

Traces the major political, ideological, economic, religious, social, and cultural developments of Russia from the establishment of the Kievan State to the present. Emphasizes the sources and development of the Soviet Union and the former-Soviet Union state(s).

*45 Contact Hours.***HIS 249 HISTORY OF ISLAMIC CIVILIZATION (3)*****(GT-HI1)**

Surveys the tenets of Islam and the political, social and cultural history of the civilizations which embraced it from the 6th century to the modern day. Focuses on the diversity and dynamism of Islamic civilizations through time by looking at legal systems, scientific and artistic accomplishments, philosophical heterogeneity and political developments.

*45 Contact Hours.***HIS 250 AFRICAN AMERICAN HISTORY (3)**

Explores the experiences and contributions of African Americans from the colonial period to the present. Emphasizes the social and economic lives and roles of African Americans, their roles in politics and war, their achievements, and movements for self-help and civil rights.

*45 Contact Hours.***HIS 251 HISTORY OF CHRISTIANITY THROUGH THE REFORMATION (3)**

General introduction to and survey of the history of Christianity from its origins through the Reformation Era (1655). Examines key events, movements, people, and beliefs of the religion in relation to their political, social and cultural settings in Europe.

*45 Contact Hours.***HIS 255 THE MIDDLE AGES (3)*****(GT-HI1)**

Focuses on political, social, cultural, economic and intellectual developments in Europe, Byzantium and the Islamic world from the collapse of Rome through the Renaissance, approximately A.D. 400-1400.

*45 Contact Hours.***HIS 256 HISTORY OF DENVER (3)**

Introduces students to the history of Denver. Incorporates academic and popular perspectives with emphasis on historically important facts and analysis as well as on the more colorful historical issues, events and personalities. Focuses primarily on the history of Denver from its founding during the Pikes Peak Gold Rush to the present time. Features the colorful people and the major events by which Denver established itself as the Queen City of the High Plains.

*45 Contact Hours.***HIS 260 U.S. FOREIGN RELATIONS HISTORY (3)*****(GT-HI1)**

Provides an overview of the history of United States foreign relations from the colonial era to the present and includes the pertinent political, military, economic, diplomatic, social, religious, ideological and cultural topics. At various points, issues such as race, class, gender, immigration, expansion, and the environment will be covered. This course also focuses on developing, practicing and strengthening the skills historians use while constructing knowledge in the discipline.

*45 Contact Hours.***HIT - Health Information Technology****HIT 101 HEALTH INFORMATION MANAGEMENT SCIENCE (6)**

Introduces the student to the health record, from inception to completion. Emphasis is on form, content and regulations impacting the health record in the various health care settings. Other areas to be discussed include the computerized aspects of the health record as well as the functions and responsibilities of the health information department. This course also examines various health care delivery systems and health care practitioners. The dilemmas of health care with attention directed to current events and how these events impact our professions are discussed.

*90 Contact Hours.***HIT 105 PRINCIPLES OF HEALTHCARE REIMBURSEMENT (3)**

Provides students with the knowledge needed to identify and perform necessary tasks involved in healthcare reimbursement systems. Topics will include reimbursement principles of various healthcare plans, prospective payment systems, the importance of clinical coding, compliance with regulations and related issues of fraud and abuse.

*45 Contact Hours. Prerequisite: COM 125, ENG 121 or ENG 131, PSY 101, CIS 118, HPR 179.***HIT 111 HEALTH DATA MANAGEMENT & INFO SYSTEMS (3)**

Introduces the practice of maintenance, compilation, analysis, and presentation of healthcare statistical data. Discussion is focused on the use, collection, presentation and verification of

health care data including fundamental concepts of descriptive statistics; data validity and reliability; data presentation techniques; and vital statistics. Introduces the electronic health record (EHR), health informatics and the infrastructure required for the EHR. Data reliability and validity will be emphasized.

45 Contact Hours. Prerequisite: COM 125, ENG 121 or ENG 131, PSY 101, CIS 118, HPR 180.

HIT 112 LEGAL ASPECTS FOR HEALTH RECORDS (2)

Introduces the student to the legal system and identifies the role of the HIM professional in this system. Specific Federal and State laws are identified and discussed as they relate to the release of medical information. Proposed Federal and State legislation that affects the health care industry is examined and discussed.

30 Contact Hours. Prerequisite: COM 125, ENG 121 or ENG 131, PSY 101, CIS 118, HPR 178.

HIT 188 HEALTH INFORMATION PRACTICUM I (2)

Provides a directed clinical experience in a health information department in a health care facility. This experience focuses on the practice of skills related to the application of legal principles, record analysis and abstraction and record retention and retrieval.

60 Contact Hours. Prerequisite: MOT 135.

HIT 220 ICD CODING I (3)

Introduces the ICD coding classification system and provides a basic understanding of ICD structure, conventions and principles utilized in code assignment. The student will be introduced to the official coding guidelines. They will apply knowledge of anatomy, physiology, pathophysiology and pharmacology in the assignment of diagnostic and procedural codes.

45 Contact Hours.

HIT 221 ICD CODING II (2)

Studies nomenclatures and classification systems with emphasis on the most recent revision of ICD-9-CM. Students study the coding conventions and principles for this system. These skills are then applied to the coding of actual medical records from area facilities.

30 Contact Hours. Prerequisite: HIT 105 or MOT 133. Recommended Preparation: HIT 231.

HIT 222 QUALITY MANAGEMENT (3)

Introduces the student to the basic concepts of quality management in the health care environment. Requirements by regulatory agencies regarding quality, utilization and risk management are discussed. Data collection, verification, analysis and presentation techniques will be studied. The course emphasizes the ongoing use of objective data and feedback to improve processes, systems and patient outcomes.

45 Contact Hours. Prerequisite: MAT 135.

HIT 225 HEALTH INFORMATION MANAGEMENT (3)

Concentrates on the principles of management as they relate to the administration of the health information management department as part of a health care organization.

45 Contact Hours.

HIT 231 ICD CODING III (5)

Provides an advanced study of ICD coding conventions and principles. DRG and case mix logic along with regulations

regarding their use in conjunction with optimization and compliance issues will be discussed. CPT/HCPCS in both the hospital-based outpatient and physician office settings will be studied. Code 3 software will be used for code assignment.

75 Contact Hours. Prerequisite: HIT 221.

HIT 241 CPT CODING BASIC PRINCIPLES (3)

Provides the student with skill sets to apply the current procedural terminology (CPT) and HCPCS code set principles and guidelines for application in reporting/communicating information and data about clinical services provided to patients by healthcare providers. Includes understanding what the CPT nomenclature is, how and why it is used, and guidelines for each code category and how it is applied to represent services within each code category.

45 Contact Hours.

See the list of Specialized Health Information Technology Courses on the first page of this Course Offerings section.

HIT 288 HEALTH INFORMATION PRACTICUM II (2)

Focuses on the ability of the student to apply classroom knowledge in a clinical setting, practice professionalism, gain insight into the functions of the department and understand the relationship of health records to the facility as a whole. Emphasis is on the ability to act independently, complete assigned projects and demonstrate a good understanding of health information management concepts.

60 Contact Hours. Prerequisite: HIT 188.

HLT - Horticulture and Landscape Technologies

HLT 101 INTRODUCTION TO HORTICULTURE (4)

Introduces the biology of horticultural plants, and basic horticultural practices.

60 Contact Hours.

HLT 105 GREENHOUSE MANAGEMENT AND CROPS (4)

Discusses greenhouse design, systems, management, and the major greenhouse crops and their cultural needs.

75 Contact Hours.

HLT 120 PRINCIPLES OF XERISCAPE (2)

Covers the principles and practices used in establishing water-conserving landscapes. Special attention is given to the proper siting, establishment and care of plant materials in water conserving landscapes, and the installation of low water use irrigation systems.

38 Contact Hours.

HLT 125 LANDSCAPE DRAFTING AND DESIGN (3)

Allows students who wish to learn the basics of landscape design and planning so that they can produce simple gardens, or interpret plans for construction. The course discusses the principles and elements of design by looking at various landscape styles. Students learn the design process and basics of landscape graphics. They produce simple, scaled landscape drawing, and learn to interpret landscape plans for construction.

60 Contact Hours.

HLT 126 PLANTING DESIGN (2)

Allows students to focus on the planting design phase of landscape design. Students learn to analyze plants for their design characters and how to marry various types of plant materials into various situations. Perennial, annual, and mixed plantings (trees, shrubs and herbaceous plants) will be considered. Students will learn how to represent these combinations graphically.

38 Contact Hours. Recommended Preparation: HLT 130.

HLT 130 LANDSCAPE GRAPHICS STUDIO (3)

Introduces students to the basics of graphic communications used in landscape design and construction. Students learn the proper use of graphic tools and materials to manually produce site analysis, concept plan, preliminary plan, planting plan, and master plan documents in both plan and perspective views.

60 Contact Hours.

HLT 140 LANDSCAPE DESIGN AND PLANNING (4)

Explores the principles and elements of design. The student learns about form, spatial and materials composition, and environmentally and architecturally responsive design. Students complete a set of landscape design documents for an actual or fictional client.

75 Contact Hours. Recommended Preparation: HLT 130.

HLT 150 INTRODUCTION TO LANDSCAPE IRRIGATION (2)

Students are introduced to the foundational information that they need to prepare them for further learning in subsequent irrigation courses. The course focuses on the mathematics and physics associated with irrigation system hydraulics; identification and use of irrigation system components; and how plant-soil-water relationships affect irrigation system design and operation management.

30 Contact Hours.

HLT 151 IRRIGATION AUDITING AND SCHEDULING (3)

Focuses on monitoring and managing the operation of an irrigation system for maximum water saving efficiency. Students learn theory behind troubleshooting, auditing and scheduling and then perform a system tune-up, irrigation audit, and calculate watering schedules based on current climatic information.

53 Contact Hours. Recommended Preparation: HLT 150.

HLT 200 URBAN FARM MANAGEMENT (4)

Discusses the principles of crop selection, site management, harvesting and handling of vegetable and fruit crops in an intensive urban farm setting.

90 Contact Hours.

HLT 202 LANDSCAPE PLANT HEALTH CARE (3)

Introduces students to the fundamentals of plant health care using important diseases and pests that affect landscape plants. Students study the components and concepts of plant health care, integrated pest management, pest problem diagnosis, pest identification and pest life cycles.

53 Contact Hours.

HLT 203 PLANT DISEASE AND PEST FIELD STUDY (2)

Provides students the opportunity to conduct field studies of local weed, insect and disease problems. Students evaluate various situations and discuss actual problem diagnosis and

site-specific remedies or preventatives for the problems they identify.

45 Contact Hours. Recommended Preparation: HLT 202.

HLT 208 COMMERCIAL PESTICIDE LICENSE TRAINING (3)

Studies the requirements for the qualified supervisor license as outlined in the training manuals published by the Colorado Department of Agriculture. Students may elect to take the certified operator test if they do not meet the experience qualifications for the qualified supervisors license. Areas studied will include the general weeds, agricultural insect, plant disease, and industrial right-of-way tests administered by the Colorado Department of Agriculture. Students may elect to take any of the other tests available.

45 Contact Hours.

HLT 210 LANDSCAPE MANAGEMENT (3)

Teaches the best management practices for landscapes. Students learn about the maintenance needs of various landscape features, and what management options exist for each feature. This course emphasizes improving landscape quality while minimizing management costs. Other topics include landscape business practices, water management, and seasonal landscape care tasks.

45 Contact Hours.

HLT 215 NURSERY MANAGEMENT (2)

Introduces students to the basics of nursery production and management. Topics include: management structures and organization; site selection; laws, regulations and standards; shipping and receiving nursery stock; marketing nursery crops; and crop production management.

38 Contact Hours

HLT 216 GARDEN CENTER MANAGEMENT (2)

Introduces students to the basics of garden center management. Topics include: personnel management; locating a garden center; purchasing product lines; marketing and advertising; and merchandising and shop layout.

38 Contact Hours.

HLT 221 WOODY LANDSCAPE PLANTS I (3)

Discusses the identification (common and botanical names), landscape usage and culture of regionally adapted plants. This course discusses deciduous shade and ornamental trees, and conifers (evergreen trees and shrubs). NOTE: HLT 221 is a standalone course that may be taken before, after or concurrently with HLT 222.

60 Contact Hours.

HLT 222 WOODY LANDSCAPE PLANTS II (3)

Discusses the identification (common and botanical names), landscape usage and culture of regionally adapted plants. This course discusses deciduous and evergreen broadleaf shrubs and vines. NOTE: HLT 222 is a standalone course that may be taken before, after or concurrently with HLT 221.

60 Contact Hours.

HLT 223 ANNUALS, BULBS, AND GRASSES (2)

Discusses the identification (common and botanical names), landscape usage and culture of annuals, bulbs, and perennial and annual grasses common to Colorado landscapes.

38 Contact Hours.

HLT 224 HERBACEOUS PERENNIALS (4)

Discusses the identification (common and botanical names), landscape usage and culture of herbaceous perennials common to Colorado landscapes.

75 Contact Hours.

HLT 226 INTERIOR PLANTS (2)

Discusses the identification, usage, and culture of common interior plants. Topics include selection for various interior environments, interior plant maintenance, and specialty interior plant products.

38 Contact Hours.

HLT 235 PRINCIPLES OF GRADING AND DRAINAGE (3)

Teaches the grading process and grading methods. The class discusses how to represent grade changes graphically on a site plan and how to interpret those representations during the construction process. The course also discusses how to calculate cut and fill quantities, how to use surveying equipment to establish benchmarks and baselines, and how to use reference points for site layout.

60 Contact Hours.

HLT 236 LANDSCAPE CONSTRUCTION (4)

Introduces students to the fundamentals of landscape construction, including construction equipment, safety practices, grading, deck, retaining wall, paving, and water feature construction. During labs students construct various landscape elements.

83 Contact Hours

HLT 237 LANDSCAPE CONSTRUCTION BIDDING AND ESTIMATING (2)

Discusses the process of bidding for landscape construction. Plan reading, quantity takeoffs, bidding and estimating practices and processes are covered.

38 Contact Hours.

HLT 240 INTRODUCTORY SOIL SCIENCE (4)

Discusses the formation, physical properties, chemical properties and management of soils emphasizing conditions that affect plant growth. The principles of soil fertility and practice of fertilizer use is also discussed.

75 Contact Hours. Recommended Preparation: CHE 101.

HLT 242 TURFGRASS MANAGEMENT (4)

Discusses the fundamentals of turfgrass establishment and maintenance as it is practiced at different cultural intensities. Topics include the growth and development of turfgrass plants, the turfgrass environment, turfgrass species selection and identification, turfgrass cultural practices, and turfgrass pest management.

60 Contact Hours. Recommended Preparation: HLT 240

HLT 245 GREEN INDUSTRY BUSINESS OPERATIONS (3)

Introduces students to the basics of Landscape business management including establishing a business, retail and wholesale marketing and merchandising, and the operations of a landscape business.

53 Contact Hours.

HLT 246 GOLF AND SPORTS TURF MANAGEMENT (2)

Discusses all aspects of sports turf management and culture, including the design, construction, and renovation of golf

courses, baseball, football and soccer fields; safety standards and practices; and non-turf maintenance practices.

45 Contact Hours. Recommended Preparation: HLT 240 and HLT 242.

HLT 247 LANDSCAPE IRRIGATION INSTALLATION (4)

Familiarize students with most current methods and highest quality materials, equipment, and technology used to install residential, commercial and drip irrigation systems. Students will then apply this knowledge by actually installing or observing an installation of an irrigation system in the field.

68 Contact Hours. Recommended Preparation: HLT 150.

HLT 250 LANDSCAPE IRRIGATION DESIGN (3)

Determine irrigation design capacity and working pressure using hydraulic analysis of residential irrigation and drip systems. Irrigation system components are examined and their application explained. Students analyze site conditions, and apply their knowledge of hydraulic analysis to produce sample irrigation designs.

53 Contact Hours. Recommended Preparation: HLT 150.

HLT 260 PLANT PROPAGATION (4)

Teaches the theory, biology, and practical applications of plant propagation technologies. This course discusses propagation by seed, cuttings, budding, grafting, layering and tissue culture. The course also discusses the propagation environment, techniques of stock plant management and seed handling.

68 Contact Hours. Recommended Preparation: HLT 101.

HLT 264 ARBORICULTURE (3)

Discusses plant growth and development as it relates to trees and shrubs, and progresses to methods of planting, tree protection, pruning, and tree care.

45 Contact Hours. Recommended Preparation: HLT 101.

HOS - Hospitality/Culinary Arts Management

HOS 110 INTRODUCTION TO HOSPITALITY (3)

Introduces learners to careers and the organization and structure of the hospitality industry including: hotels, restaurants, non-commercial food service, travel and tourism, conventions and meetings, clubs and other food service entities. Topics include exploring career opportunities, understanding the world of hotels and restaurants, food service organizational structures, an introduction to the meetings industry, and analyzing the size and scope of the non-commercial foods segment.

45 Contact Hours.

HOS 112 BAKING/PASTRY (4)

Introduces commercial baking and pastry production, nutrition, standard product and equipment identification, and supervisory techniques in the area of food production. The course includes classroom instruction, demonstrations, and actual baking of breads, pastries, and desserts.

90 Contact Hours. Prerequisite or Corequisite: CUA 101

HOS 120 SERVICE MANAGEMENT (3)

Describes the differences between managing and marketing services for hospitality students or those interested in service industries. The course focuses on understanding, analyzing, and measuring service, especially in the hospitality segment.

45 Contact Hours.

HOS 121 FOOD PREPARATION (4)

Continues supplying the learner with information regarding a commercial food service environment, standard product and equipment identification, and supervisory techniques in the area of food production. The course includes classroom instruction, demonstrations and applies theory to commercial and institutional food service in an industrial environment, including basic cooking principles, recipes, menu development, and on-the-job training.

90 Contact Hours. Prerequisite or Corequisite: CUA 101

HOS 131 PLANNING FOR SPECIAL EVENTS (3)

Provides a basic knowledge of the planning and development of an event or meeting, including the budgeting, arranging of entertainment and catering, and the lodging of participants.

45 Contact Hours.

HOS 141 CONVENTION MANAGEMENT (3)

Prepares students for a management position in the convention industry. The course defines the scope and segmentation of the convention and group business market, describes marketing and sales strategies to attract markets with specific needs, and explains techniques to meet those needs as part of meeting and convention service.

45 Contact Hours.

HOS 148 INTRODUCTION TO FOOD & BEVERAGE (3)

Challenges that a food and beverage manager faces in developing a solid customer base is presented in this course. Topics include principles of food production and service management, including menu planning, purchasing, storage, beverage management, and food service layout and equipment. Students will prepare a plan for a food service facility.

45 Contact Hours.

HOS 240 PURCHASING AND MENU PLANNING (3)

Introduces the world of food service purchasing. The course initially provides the student with an overview of the purchasing cycle and describes how to place and receive orders following procedures defined in the marketplace. The course describes the impact of innovative packaging processing on foods, describes the effect technology has on the present food service menu, and discusses concepts that impact the future.

45 Contact Hours.

HOS 241 PANTRY AND DELI PRODUCTION (4)

Provides the student information in the preparation of pantry, breakfast, dairy and garnish items, and the preparation of salads and cold items for buffets and menu items.

90 Contact Hours. Prerequisite: HOS 121

HOS 242 HOTEL SALES AND MARKETING (3)

Focuses on the basic elements of sales, marketing, rooms merchandising, convention planning, and basic food and beverage knowledge. The course emphasizes the relationship between the sales philosophy, the guest, and the hotel.

45 Contact Hours.

HOS 246 MARKETING HOSPITALITY SERVICES (3)

Presents marketing techniques of selected properties, the general marketing approaches of the major chains, and the

ways to develop a marketing plan for hotel and motel properties.

45 Contact Hours.

HOS 250 FOOD, BEVERAGE AND LABOR COST CONTROL (3)

Introduces the student to concepts of food, beverage, and labor cost control in the hospitality business.

45 Contact Hours. Prerequisite: CIS 118

HOS 251 HOTEL OPERATIONS (3)

Studies hotel operations covering such aspects as the hotel organization chart, job analysis and design, managing human resources, production and serving controls, calculating food and beverage costs, and telecommunication systems. Case problems provide the students the opportunity to develop control systems for food and lodging organizations and understand the hierarchy of career advancement in a hotel environment.

45 Contact Hours.

HOS 252 ADVANCED FOOD PREPARATION (4)

Provides advanced food preparation, commercial food production, and service techniques to the learner with realistic production, service and supervisory experience. Students are rotated through production and service stations and required to plan and cost menus, purchase all ingredients, schedule production and service staff, handle guest relations, and keep accurate financial records on the profit or loss of the operation. Merchandising, controlling labor and food costs are integral parts of the course.

90 Contact Hours. Prerequisite: HOS 121

HOS 255 HOSPITALITY HR MANAGEMENT (3)

Studies the technical and legal challenges of hospitality human resource management from working within today's employment laws to controlling absenteeism, dealing with unions, handling discipline and termination, and creating affordable wages and benefit programs. Explores controlling costs, increasing motivation and productivity, and how to find and keep good employees.

45 Contact Hours.

HOS 280 INTERNSHIP (FOOD OR OPERATIONS) (2)

Exposes the learner to the practical application of course studies in the hospitality industry. The course consists of practical experience in a hotel, restaurant, convention center, resort, tourism operation, or other professional opportunity in the hospitality industry.

90 Contact Hours. Prerequisite: CUA 101 and HOS 110

HOS 288 PRACTICUM (2)

Provides students with the opportunity to supplement coursework with practical work experience related to their educational program. Students work under the immediate supervision of experienced personnel at the business location and with the direct guidance of the instructor.

60 Contact Hours. Prerequisites: CUA 101, HOS 110 and HOS 121.

HPE - Human Performance & Exercise

HPE 100 INTRODUCTION TO PHYSICAL EDUCATION AND SPORT (2)

Focuses on the field of physical education and sports. Includes trends, precedents and their effects in the health and total wellness of those involved.

30 Contact Hours.

HPE 231 CARE AND PREVENTION OF ATHLETIC INJURIES (3)

Focuses on techniques in prevention, care and basic rehabilitation of athletic injury.

53 Contact Hours.

HPR - Health Professional

HPR 100 INTRODUCTION TO HEALTH (3)

Provides an exploratory course for students interested in a health career. Basic health skills such as vital signs and CPR will be included.

45 Contact Hours

HPR 101 CUSTOMER SERVICE IN HEALTHCARE (2)

Introduces students to customer service theory and techniques specifically in the healthcare arena. This course will discuss therapeutic communication, conflict resolution and negotiation, as well as employee/employer relations. Exploration of diverse populations and cultural sensitivity will be addressed.

30 Contact Hours

HPR 102 CPR FOR PROFESSIONALS (0.5)

Meets the requirement for American Red Cross Professional Rescuer CPR or American Heart Association Basic Life Support for those who work in Emergency Services, Health Care and other professional areas. Material presented in the course is basic patient assessment, basic airway management, rescue breathing, and CPR for infant, children and adult patients.

7.5 Contact Hours.

HPR 104 HEALTH CAREERS, OPTIONS AND READINESS (1)

Discusses current market trends in the medical profession, professional opportunities, continuing education, and professional affiliations. Discussions regarding resumes, portfolios, letters of inquiry, and interviewing techniques, as well as job search information is provided. This course is primarily informational and provides various aspects of career choices

15 Contact Hours

HPR 106 LAW AND ETHICS FOR HEALTH PROFESSIONS (2)

Advances student knowledge in the study and application of medico-legal concepts in medical careers, establishes a foundation for ethical behavior and decision-making.

30 Contact Hours.

HPR 108 DIETARY NUTRITION (1)

Studies the basic principles in clinical practice involved in the assistance of health care. The course will cover factors which influence the nutritional status of individuals, methods of

nutritional assessment and support, and diet modification for specific diseases.

15 Contact Hours.

HPR 109 ASSISTING WITH MEDICATION ADMINISTRATION (1)

Addresses routine knowledge and information required by the Professional Household Health Assistant in attending the home-care patient. It is designed to provide information in support of the family and healthcare providers' directions in client self-administered medication in the home setting. It is not designed to teach administration techniques, calculations, or dispensing of drugs to the client in the home, but rather the support skills required in assisted facilitation of self-medication, storage of medications, and trained observation of the patient with monitoring/documentation of patient self-administered medications.

15 Contact Hours.

HPR 112 PHLEBOTOMY (4)

Teaches the duties associated with the practice of venipuncture, capillary puncture, and special collection procedures. Students will have experience with quality control, infection control and safety procedures as well as laboratory computer systems.

Contact hours 90. Prerequisite: ENG 060 or ENG 090 or ENG 121

HPR 113 ADVANCED PHLEBOTOMY (4)

Instructs students in advanced phlebotomy techniques to include patients in trauma, neonatal, geriatric, and long term acute care areas. In addition, laboratory procedures taught include specimen processing and advanced point-of-care instrumentation. This course includes a lecture/lab combination that teaches theory and direct application of theoretic content and clinical opportunities for student to master learned skills.

Contact hours 100. Prerequisite: ENG 060. Corequisite: HPR 112.

HPR 116 COMPUTERS IN HEALTH CARE (1)

Introduces the learner to the use of personal computer technology and the concepts of software applicable to health care. Basic features of selected software, terminology related to hardware, software and online resources (which include PC, word processing, e-mail) and electronic health-based research will be emphasized. Provides opportunities for practical applications of computer skills to nursing care.

Contact hours 22.5.

HPR 117 ANATOMICAL KINESIOLOGY (3)

Studies the anatomical bases of human movement.

45 Contact Hours

HPR 120 ADVANCED CARDIAC LIFE SUPPORT (ACLS) (1)

Presents the required material for ACLS completion. It will cover arrhythmia, medications, therapeutic modalities for life threatening arrhythmia, airway management, and other treatment modalities used in cardiac and respiratory arrest.

22.5 Contact Hours

HPR 130 PEDIATRIC ADVANCED LIFE SUPPORT (PALS) (1)

Provides students the needed information and skills as required by health care agencies for pediatric emergencies.

22.5 Contact Hours

HPR 137 HUMAN DISEASES (4)

Covers basic knowledge of the deviations that occur in the human body with disease and injury. An integrated study of signs/symptoms, diagnostic tests and treatment.

60 Contact Hours. Prerequisite: BIO 106.

HPR 178 MEDICAL TERMINOLOGY (1)

Introduces the student to the structure of medical terms with emphasis on using and combining the most common prefixes, roots and suffixes. Includes terms related to major body systems, oncology, psychiatry, as well as clinical laboratory and diagnostic procedures and imaging. Class structure provides accepted pronunciation of terms and relative use in the healthcare setting.

15 Contact Hours.

HPR 190 BASIC EKG INTERPRETATION (2)

Provides instruction for interpretation of EKG strips, anatomy and physiology of the heart, using three-lead monitoring as a guide. Twelve-lead EKG may be discussed.

30 Contact Hours.

HPR 200 ADVANCED EKG INTERPRETATION (2)

Focuses on each wave and interval of the complex, the axis, and the 12-lead presentation of some rhythm disturbances.

30 Contact Hours. Prerequisite: HPR 190

HPR 205 MICROBIOLOGY OF INFECTIOUS DISEASES (3)

Acquaints the student with microbes and their roles in infectious disease. It includes descriptions of bacteria, viruses, fungi, and protozoa; as well as techniques for growing, controlling and treating diseases caused by these organisms. Within the scope of this course are units which discuss how the diseases are diagnosed, and finally, epidemiology and communicability of individual diseases grouped by portals of entry. Prevention and infection control issues as well as current issues surrounding infectious disease may also be discussed.

45 Contact Hours.

HPR 208 ADVANCED MEDICAL TERMINOLOGY (2)

Continues from a beginning medical terminology course for the student with emphasis on combining complex prefixes, roots and suffixes. Includes pathophysiology for major body systems. Includes terms related to diagnostic tools per body systems, as well as commonly used medical abbreviations.

30 Contact Hours

HPR 232 DISEASE PROCESS AND TREATMENT (5)

Covers disease processes and drug therapy used to treat commonly found pathological conditions. Normal anatomy and physiology of each body system is reviewed. Conditions that disrupt homeostasis are examined. Conditions considered are both acquired and congenital. Diagnostic methods, management, treatment modalities and prognosis are discussed. Classifications of drugs are introduced. A general understanding of the actions; absorption, metabolism and excretion; and reasons for use of various groups of pharmacologic agents are introduced.

90 Contact Hours.

HUM - Humanities**HUM 103 INTRODUCTION TO FILM ART (3)**

Studies the relationships among film's stylistic systems, narrative systems and audience reception. Students view, discuss and critically analyze a variety of films which represent key historical and aesthetic periods as well as a variety of genres and themes. The course incorporates the vocabulary of stylistic systems (for instance, cinematography, editing and art direction) and narrative systems (for instance, story structure and character motivation) as both relate to the kinds of meanings a film conveys.

45 Contact Hours.

HUM 115 WORLD MYTHOLOGY (3)

***(GT-AH2)**

Introduces students to the mythologies of various cultures. Common themes are illustrated and an interdisciplinary approach is used incorporating some of the following: religion, philosophy, art history, theater, literature, music, cultural studies, and history.

45 Contact Hours.

HUM 121 EARLY CIVILIZATIONS (3)

***(GT-AH2)**

Introduces students to the history of ideas that have defined cultures through a study of the visual arts, literature, drama, music, and philosophy. It emphasizes connections among the arts, values, and diverse cultures, including European and non-European, from the Ancient world to 1000 C.E.~~This course is one of the Statewide Guaranteed Transfer courses. GT-AH2

45 Contact Hours.

HUM 122 FROM THE MEDIEVAL TO THE MODERN (3)

***(GT-AH2)**

Examines written texts, visual arts and musical compositions to analyze and reflect the evolution and confluence of cultures in Europe, Asia and the Americas from 800 C.E. to 1750 C.E. Any two of the three Survey of Humanities courses equal a sequence.~~This course is one of the Statewide Guaranteed Transfer courses. GT-AH2

45 Contact Hours.

HUM 123 THE MODERN WORLD (3)

***(GT-AH2)**

Examines the cultures of the 17th through the 20th centuries by focusing on the interrelationships of the arts, ideas, and history. Considers the influences of industrialism, scientific development and non-European peoples.~~This course is one of the Statewide Guaranteed Transfer courses. GT-AH2

45 Contact Hours.

HUM 164 AMERICAN CINEMA (3)

Introduces film studies and surveys the American film industry as an art form, as an industry, and as a system of representation and communication. This course explores how Hollywood films work technically, aesthetically, and culturally to re-enforce and challenge America's national self image.

45 Contact Hours.

HUM 211 CULTURAL DIVERSITY-HUMANITIES (3)

Introduces students to the various aspects of social and cultural diversity. Promotes development of critical thought and growth of multicultural, multisocial and multilingual understanding.

45 Contact Hours.

HVA - Heating, Ventilation and Air Conditioning

HVA 101 INTRODUCTION TO AIR CONDITIONING AND REFRIGERATION (4)

Introduces school policies, safety procedures, and first aid. Use of trade tools and terminology is covered. Laboratory experiences include brazing, soldering, and material.

90 Contact Hours.

HVA 102 BASIC REFRIGERATION (4)

Introduces the basic theory of refrigeration systems, components, charging, recycling, and evacuation of refrigeration units.

90 Contact Hours. Prerequisite or Corequisite: HVA 101

HVA 103 BASIC ELECTRICITY (3)

Covers basic electrical AC and DC theory, including study of Ohm's Law and using electrical theory to explain operation of electrical devices.

68 Contact Hours

HVA 104 ELECTRICAL COMPONENTS FOR AIR CONDITIONING AND REFRIGERATION (4)

Covers electrical power, distribution, transformers, capacitors, relays, and electric motors. Laboratory experiences consist of using electrical devices to control electrical loads.

90 Contact Hours. Prerequisite or Corequisite: HVA 103

HVA 122 COMMERCIAL REFRIGERATION (4)

Covers commercial icemakers, walk-in coolers, walk-in freezers, and self-contained refrigeration units.

90 Contact Hours. Prerequisites: HVA 101, HVA 102, HVA 103, and HVA 104

HVA 123 AIR CONDITIONING (4)

Covers basic heating and air conditioning theory and service. Aspects covered include gas heat, electric heat, heat pumps, residential boiler systems, central air conditioning, and window air conditioners.

90 Contact Hours. Prerequisites: HVA 101, HVA 102, HVA 103, and HVA 104

HVA 124 ADVANCED AIR CONDITIONING (4)

Covers design, installation, and testing of residential heating and cooling systems. Additional areas emphasized are duct design and sheet metal work.

90 Contact Hours. Prerequisite: HVA 101 and HVA 102 and HVA 103 and HVA 104, and prerequisite or corequisite: HVA 123.

HVA 200 INTERNATIONAL RESIDENTIAL CODES - MECHANICAL AND FUEL GAS (2)

Covers the mechanical and fuel gas requirements of the International Residential Code. Students will be given the opportunity to learn and apply the general requirements of this code. The course will review and apply the sizing requirements of parts V and V1 of this code.

30 Contact Hours. Prerequisite: HVA 101, HVA 102, HVA 103, and HVA 104.

HVA 201 HEATING FOR COMMERCIAL APPLICATIONS (3)

Covers hydronic and steam heating systems, including steam, hot water and forced air-heating systems for commercial buildings.

68 Contact Hours. Prerequisite: HVA 101, HVA 102, HVA 103, and HVA 104.

HVA 202 TROUBLESHOOTING AND CUSTOMER SERVICE (3)

Covers field analysis of malfunctions on actual, in-house, heating, ventilation, refrigeration and air conditioning equipment. Customer interaction and diagnosis efficiency is stressed.

68 Contact Hours. Prerequisite: HVA 101, HVA 102, HVA 103, and HVA 104

HVA 203 INDUSTRIAL CONTROLS (3)

Covers both pneumatic and electrical/electronic control systems. Students learn installation, maintenance and calibration of controls. Laboratory experiences include troubleshooting of malfunctioning systems, calibration and typical installation of control systems.

68 Contact Hours. Prerequisites: HVA 101, HVA 102, HVA 103, and HVA 104

HVA 247 HOT WATER HEATING SYSTEMS (4)

Covers the theory of operation behind these systems, as well as installation, maintenance and repair. The course also examines air elimination, circulator pump and pipe sizing. Boiler and heat convector sizing are also discussed.

90 Contact Hours. Prerequisite: HVA 101, HVA 102, HVA 103, and HVA 104.

HVA 280 INTERNSHIP (1)

Gives the students an opportunity to apply their course studies in a specific area.

45 Contact Hours. Prerequisite: HVA 102 and HVA 104.

HWE - Health Wellness Education

HWE 100 HUMAN NUTRITION (3)

Introduces basic principles of nutrition with emphasis on personal nutrition. Satisfies nutrition requirement of students entering health care professions. Transfers to most four-year colleges.

45 Contact Hours.

HWE 101 CARDIO-PULMONARY RESUSCITATION (CPR) (1)

Teaches emergency procedures for respiratory, obstructed airway and cardiac arrest victims of all ages. It meets certification requirements of the American Red Cross and the American Heart Association.

15 Contact Hours.

HWE 103 COMMUNITY FIRST AID AND CPR (1)

Uses demonstration videos, instructor led practice and workbook / textbook study to prepare for certification in Adult/Child/Infant CPR and First Aid.

15 Contact Hours.

HWE 106 INFANT & CHILD CPR/FIRST AID (0.5)

Emphasis on the skills needed to recognize and respond confidently and calmly to childhood emergencies and to help prevent childhood accidents. Topics include primary assessment, airway obstructions, infant and child CPR, control of bleeding, illness assessment, sudden illness, motor vehicle safety, injury assessment, burns, fractures, wounds, child abuse, hypothermia and communication.

8 Contact Hours.

HWE 108 WEIGHT LOSS (1)

Focuses on combining a healthy diet and exercise to shed unwanted pounds and inches. The course will include classroom sessions that will focus on personal habits including diet that lead to weight gain and exercise session in the fitness center.

15 Contact Hours.

HWE 109 WEIGHT MANAGEMENT AND EXERCISE (2)

Offers guided instruction in weight management and exercise to students interested in learning more about weight control. Emphasis is placed on the development of weight management programs, review of current trends and diets, essential nutrients, eating disorders, special populations, and the role of exercise in weight management.

45 Contact Hours.

HWE 110 FITNESS CONDITIONING AND WELLNESS (2)

Provides the proper techniques and guidelines for a student to develop a personal lifetime program that improves fitness and promotes preventive care and personal wellness. In addition, this course offers instruction in cardiovascular endurance, muscular strength and endurance training, flexibility training, and body composition management to meet individual needs.

45 Contact Hours.

HWE 112 HEALTH & WELLNESS FOR THE ELDERLY (3)

Helps the student become familiar with the field of health and wellness for the elderly population. The foundations of health and wellness will be explored as well as the skills and resources needed to assist the elderly in being more proactive in their healthcare practices.

45 Contact Hours.

HWE 113 FIRST AID AND ADULT CPR (0.5)

Teaches the recognition and care for breathing and cardiac emergencies for victims 8 years old and up; identify and care for life-threatening bleeding, sudden illness and injuries. American Red Cross certification in Adult CPR and Standard First Aid is available for students meeting those requirements.

8 Contact Hours.

HWE 121 WILDERNESS FIRST AID (2)

Provides more advanced wilderness care for the First Responder or EMT provider.

45 Contact Hours.

HWE 122 RESPONDING TO EMERGENCIES (2)

Provides standard first aid and CPR, with a more in depth look at sudden illness, specific disease, and emergencies.

30 Contact Hours.

HWE 124 FITNESS AND WELLNESS (2)

Provides information on fitness and wellness and to serve as a guide to design, implement, and evaluate a complete personal fitness and wellness program. The course integrates the basic components of fitness and wellness in understanding human health in order to achieve wellbeing. This course offers current information in the health field and provides self-assessments for health risks and wellness behaviors. This includes lifestyle modification, nutrition, weight management, stress management, cardiovascular and cancer risk reduction, exercise and aging, exercise related injury, exercise and the environment, prevention of sexually

transmitted diseases, substance abuse (including tobacco, alcohol and other psychoactive drugs), and analysis and interpretation of research publications and websites in health and wellness.

30 Contact Hours.

HWE 129 WILDERNESS FIRST RESPONDER (2)

Provides the student with those skills and emergency medical care techniques used by guides, trip leaders and others providing primary care in backcountry setting. The student will be able to respond correctly to those medical and trauma situations commonly encountered when entry into the EMS system is delayed or unlikely.

30 Contact Hours.

HWE 140 NUTRITION IN PREGNANCY (1)

Covers the basic nutrition principles during pregnancy and lactation. Focuses on normal pregnancy, gestational diabetes, normal lactation, common problems in breast feeding.

15 contact hours.

HWE 141 INFANT NUTRITION (1)

Covers the basic nutrition principles during birth-18 months. Examines breastfeeding/bottle feeding nutrition and techniques; introduction of solid foods, weaning from breast feeding or bottle feeding, transitioning to table foods and cup usage. Discusses common nutritional problems of the infant: special needs of the preterm infant, failure to thrive, diarrhea, poor eating, anemia, allergies.

15 contact hours.

HWE 142 TODDLER/PRESCHOOL NUTRITION (1)

Covers the basic nutrition principles for the toddler to preschooler. Emphasizes nutrition during health and illness. Focuses on the "Feeding Relationship".

15 Contact Hours.

HWE 145 SELF DEFENSE (1)

Introduces the basic skills and techniques of the art of self-defense.

15 Contact Hours.

IND - Interior Design**IND 105 INTRODUCTION TO INTERIOR DESIGN (3)**

Introduces design awareness, color, and the elements of style in this overview of the interior design industry. Focus is on design awareness and creative problem solving while studying various facets related to interiors.

68 Contact Hours.

IND 107 HISTORY OF INTERIOR DESIGN (3)

Offers a study of interiors and furnishings from the medieval period to the Revival styles of the mid-eighteenth century to the contemporary classics used in modern interiors today. Study of interior and exterior architectural elements, furniture, design motifs and ornamentation, fine arts and construction methods as it relates to the cultural, political, social, technological and economic conditions of the times.

68 Contact Hours.

IND 113 PERSPECTIVE & RENDERING TECHNIQUES (3)

Teaches visual communication techniques, methods of communicating interior design plans, ideas and elements using sketching, 2D and 3D drawing and renderings.

Emphasis is placed on 2D and 3D perspective drawings, illustrations and renderings.

68 Contact Hours. Recommended Preparation: ART 121 & IND 105

IND 114 SPACE PLANNING (3)

Teaches the principles and factors of space planning, and practice the space planning process through residential and light commercial applications. Students are introduced to interior architecture. Use of bubble diagrams and freehand ink presentation techniques are also included.

68 Contact Hours. Recommended Preparation: AEC 101

IND 120 INTERIOR DESIGN II - SPACE PLANNING AND HUMAN FACTORS (3)

Develops awareness of human dimensions, special relationships, and the importance of the physical and psychological characteristics of people. Studies include residential and commercial spaces and Americans with Disabilities Act factors.

68 Contact Hours. Prerequisite: IND 114

IND 200 KITCHEN AND BATH DESIGN I (4)

Provides the specialized design process and documentation requirements of kitchen and bath design and applies National Kitchen and Bath Association guidelines. Students become familiar with trade resources supporting the design field. At least two portfolio projects are produced. Students will be encouraged to produce project documents using a variety of computer software applications.

90 Contact Hours. Corequisite: AEC 101

IND 205 PROFESSIONAL PRACTICE (2)

Introduces processes involved in creating and running a professional interior design business including legal, ethical, practical and professional requirements. Emphasis on business structures and practices, professional documentation and contracts, marketing techniques, job cost estimating, setting up industry accounts and project management methods. Students become familiar with business practices in both commercial and residential design firms and develop business plans and resumes.

45 Contact Hours. Prerequisite: IND 200

IND 213 IND PORTFOLIO PRESENTATIONS (3)

Prepares the student for the industry by refining presentation skills and completing a portfolio for employment. Students learn to manipulate software renderings, hand-drafted renderings, model building, and interior finish presentation boards to develop a digital and hard-copy portfolio for selling design through presentation. The student will learn various techniques for time management and time-saving skills for graphic communication.

68 Contact Hours. Prerequisite: IND 120 and CAD 215

IND 220 INTERIOR DESIGN III - MATERIALS, DETAILS, CODES, & SPECS (3)

Coordinates interior building materials, interior details, and section drawings, building codes and specifications for typical and custom projects, and the ability to communicate custom designed furnishings specifications.

68 Contact Hours. Prerequisite: IND 120

IND 225 LIGHTING DESIGN (3)

Teaches and applies basic knowledge of interior lighting technology and design. Content includes lamp classifications,

color rendition, how lighting sources effect our perception of space, how to compute and control proper lighting levels, and how to communicate design information by means of a reflected ceiling plan and luminaire schedule. Students will be encouraged to produce projects using a variety of computer software applications.

68 Contact Hours. Prerequisite: IND 114

IND 231 SUSTAINABLE DESIGN (3)

Creates awareness and understanding in ecological issues emphasizing the use of environmentally-friendly materials and resources without compromising the effectiveness of the design. It also investigates the practice of design to reduce the effects on the environment using renewable materials into the design and building for both, residential and commercial. Its emphasis is to conserve resources and reduce the negative impact on the environment.

68 Contact Hours. Prerequisite: IND 114

IND 261 ADVANCED KITCHEN AND BATH DESIGN (4)

Continues Kitchen and Bath Design instruction while participating in the National Kitchen and Bath Association (NKBA) Student Design Competition for 1 bathroom and 1 kitchen remodel. Students will use NKBA Graphic Standards and Planning Guidelines to facilitate 2 sets of drawings, 2 materials boards, and 1 estimate and contract for the projects.

90 Contact Hours. Prerequisite: IND 200.

IND 280 INTERNSHIP (4)

Provides work experience in a business or industry; 45 fieldwork hours per credit hour. Students must have a GPA of 3.0 to enroll in the Internship course.

180 Hours. Prerequisite: IND 200

IPP - Interpreter Preparation

IPP 115 INTRODUCTION TO LANGUAGE AND COMMUNICATION (3)

Enables sign language interpreting students to establish a foundation of linguistic and mentalinguistic skills. Students will study the complexities of English and analyze semantic and discourse level considerations within mainstream American culture. Students will also have an opportunity to identify strengths and weaknesses in their own fluency in English.

45 Contact Hours. Prerequisite: ENG 121. Corequisite: IPP 121.

IPP 121 ASPECTS OF INTERPRETING I (3)

Acquaints the student with the basics of interpreting. This will enable the student to understand what interpreting involves and the professional requirements for being an interpreter. The student is introduced to the role of the interpreter, the code of professional conduct, situation assessment required for effective interpreting, and certification for interpreters.

45 Contact Hours. Prerequisite: ASL 122. Corequisite: IPP 115 unless this class has already been taken.

IPP 122 ASPECTS OF INTERPRETING II (3)

Provides a more in-depth study of the field of interpreting expanding on the basics introduced in IPP 121. Lecture/discussion sessions will address ethical decision-making and cultural issues, as well as the various settings in which interpreters work. Students will have opportunities to observe various professional interpreters throughout the semester.

45 Contact Hours. Prerequisite: IPP 121. Corequisite: ASL 221 unless this class has already been taken.

IPP 125 ORAL TRANSLITERATING (2)

Provides the student with the opportunity to develop basic oral communication facilitation skills. The course allows the student the advantage of learning the different techniques in rendering effective oral communication facilitation between consumers.

30 Contact Hours. Prerequisite: IPP 121. Corequisite: IPP 135.

IPP 135 INTRODUCTION TO INTERPRETING (3)

Provides the student with an analysis of interpretation theory and the development of processing skills that will be applied to consecutive interpretation.

45 Contact Hours. Prerequisites: ASL 123 and IPP 121; and corequisites: ASL 221 and IPP 122.

IPP 145 DEAF PEOPLE IN SOCIETY (2)

Expands the student's knowledge of the impact of deafness on the development of language and cognition and the socialization of deaf individuals in a hearing world.

30 Contact Hours. Prerequisite: ANT 101. Corequisites: ASL 221 and IPP 147.

IPP 147 SURVEY OF DEAF CULTURE (3)

Surveys the factors that contribute to defining deaf persons as members of a cultural minority. The course will look at the impact of language on the culture as well as the role of norms, values, traditions, and minority groups within Deaf Culture. Attention will also be given to identity and membership in Deaf Culture.

45 Contact Hours. Prerequisite: ANT 101. Corequisites: ASL 221 and IPP 145.

IPP 205 EDUCATIONAL INTERPRETING (4)

Helps students gain insight into the roles of the interpreter/tutor in the mainstream environment, and to recognize the implications of child development and classroom interaction patterns on interpreting. Students also discuss tutoring strategies.

60 Contact Hours. Prerequisites: ASL 221 and IPP 122.

IPP 225 ENGLISH TO ASL INTERPRETING (3)

Provides the student an opportunity to further develop interpreting skills from English to ASL.

45 Contact Hours. Prerequisites: ASL 221, IPP 122 and IPP 135. Corequisites: ASL 222 and IPP 227.

IPP 227 ASL TO ENGLISH INTERPRETING (3)

Provides the student an opportunity to build skills in interpreting and transliterating into spoken English from ASL and various contact varieties.

45 Contact Hours. Prerequisites: ASL 221, IPP 122 and IPP 135; and corequisites: ASL 222 and IPP 225.

IPP 229 TRANSLITERATING (3)

Provides the student with knowledge of transliterating techniques and to develop skills in transliterating spoken English into signed English. The student is introduced to the concept of transliterating and the differences in transliterating and interpreting.

45 Contact Hours. Prerequisites: ASL 221, IPP 122 and IPP 135.

IPP 235 ADVANCED INTERPRETING (4)

Provides the student with an opportunity to further develop and refine skills in ASL to English and English to ASL interpretation and transliteration.

60 Contact Hours. Prerequisites: ASL 222, IPP 225, IPP 227 and IPP 229. Corequisites: IPP 278 and IPP 282.

IPP 278 INTERPRETER SEMINAR (2)

Provides the student with an open forum to discuss situations arising from interpreter assignments during internship and an opportunity to prepare for entering the interpreting field.

30 Contact Hours. Prerequisites: ASL 222, IPP 225, IPP 227 and IPP 229. Corequisites: IPP 235 and IPP 282.

IPP 282 INTERNSHIP (6)

Provides field experience interpreting in a supervised educational, community, service agency, or other setting.

270 Contact Hours. Prerequisites: IPP 205, IPP 225, IPP 227 and IPP 229. Corequisites: IPP 235 and IPP 278.

ITA - Italian

ITA 101 CONVERSATIONAL ITALIAN I (3)

Provides the first course in a sequence for beginning students who wish to understand and speak Italian. The material includes basic vocabulary, grammar, and expressions that are used in daily situations and in travel.

45 Contact Hours.

ITA 102 CONVERSATIONAL ITALIAN II (3)

Provides the second course in a sequence for students who wish to understand and speak Italian. The material continues to cover basic conversational patterns, expressions, and grammar.

45 Contact Hours. Recommended Preparation: ITA 101 or equivalent.

ITA 111 ITALIAN LANGUAGE I (5)

Develops students' interpretive, interpersonal, and presentational communicative abilities in the language. Integrates these skills in the cultural contexts in which the language is used. Offers a foundation in the analysis of culture.

75 Contact Hours

ITA 112 ITALIAN LANGUAGE II (5)

Expands students' interpretive, interpersonal, and presentational communicative abilities in the language across the disciplines. Integrates these skills with the study of the cultures in which the language is used. Offers a foundation in the analysis of culture and develops intercultural communicative strategies.

75 Contact Hours. Recommended Preparation: ITA 111 or equivalent.

ITA 201 CONVERSATIONAL ITALIAN III (3)

Presents the third course in a sequence for students who wish to continue their study of understanding and speaking Italian. The material includes intermediate level vocabulary, grammar, and expressions.

45 Contact Hours. Recommended Preparation: ITA 102 or equivalent.

ITA 202 CONVERSATIONAL ITALIAN IV (3)

Presents the fourth course in a sequence for students who wish to continue their study of understanding and speaking

Italian. The material continues to cover intermediate level conversational patterns, expressions, and grammar.

45 Contact Hours. Recommended Preparation: ITA 201 or equivalent.

ITA 211 ITALIAN LANGUAGE III (3)

*(GT-AH4)

Continues Italian language I and II in the development of increased functional proficiency in listening, speaking, reading and writing the Italian language. Note: The order of the topics and the methodology will vary according to individual texts and instructors.

45 Contact Hours. Recommended Preparation: ITA 112 or equivalent.

ITA 212 ITALIAN LANGUAGE IV (3)

*(GT-AH4)

Continues Italian language I, II, and III in the development of increased functional proficiency in listening, speaking, reading and writing the Italian language. Note: The order of the topics and the methodology will vary according to individual texts and instructors.

45 Contact Hours. Recommended Preparation: ITA 211 or equivalent.

JOU - Journalism

JOU 105 INTRODUCTION TO MASS MEDIA (3)

*(GT-SS3)

Places the mass media in an historical and cultural perspective, and considers the validity, integrity and influence of the media in a democracy.

45 Contact Hours.

JOU 106 FUNDAMENTALS OF REPORTING (3)

Introduces news writing, reporting and interviewing with emphasis on clarity, accuracy, completeness, timeliness and fairness.

45 Contact Hours. Recommended Preparation: JOU 105.

JOU 121 PHOTOJOURNALISM (3)

Develops photojournalistic skills in capturing moments of real life from a unique personal viewpoint. Covers a broad overview of new media story-telling techniques. Students will focus on the way they observe the world around them and on the content and quality of their photographs.

NOTE: Photojournalism students must have regular access to a digital SLR camera with a 35mm f/2.8 lens or a 50mm f/2.8 lens. The camera should permit full manual control over aperture, shutter speeds, film speed settings (ISO or ASA), and focus. An automatic "point and shoot" camera will not meet the course requirements.

45 Contact Hours.

JOU 215 PUBLICATIONS PRODUCTION AND DESIGN (3)

Provides for student participation in the planning, writing, design and production processes of a non-newspaper publication.

68 Contact Hours.

JOU 221 NEWSPAPER DESIGN I (3)

Provides students with experience in news writing, editing, design, layout and advertising for newspaper production. Students may be required to work on the college newspaper or other news-oriented publication.

45 Contact Hours. Prerequisite: Permission of instructor.

JOU 225 INTERNET MEDIA (3)

Explores techniques and approaches in the latest delivery methods for internet-based journalism. Students explore digital media outlets such as blogs, microblogs, audio and video podcasts, e-zines and social networks. Students create journalistic pieces for internet-based media, focusing on best journalistic practices, ethics of internet media, and technology emergence affecting digital journalism. Concepts in video production, photography, writing, sourcing, editing and additional relevant skills necessary for the citizen journalist are introduced. Students create all components for the online dissemination of news, documentary and infotainment.

45 Contact Hours.

JOU 241 FEATURE AND MAGAZINE WRITING (3)

Studies trade, consumer and technical markets, as well as manuscript development with an emphasis on nonfiction, submission techniques, and trends affecting the marketing of manuscripts.

45 Contact Hours. Prerequisites: JOU 105 and JOU 106.

JPN - Japanese

JPN 101 CONVERSATIONAL JAPANESE I (3)

Introduces beginning students to conversational Japanese and focuses on understanding and speaking Japanese. Covers basic vocabulary, grammar, and expressions that are used in daily situations and in travel.

45 Contact Hours.

JPN 102 CONVERSATIONAL JAPANESE II (3)

Continues the sequence for students who wish to understand and speak Japanese. Covers basic conversational patterns, expressions and grammar.

45 Credit Hours. Prerequisite: JPN 101 with grade of "C" or better

JPN 111 JAPANESE LANGUAGE I (5)

Introduces a sequence dealing with the development of functional proficiency in listening, speaking, reading and writing the Japanese language.

Note: The order of the topics and methodology will vary according to individual texts and instructors.

75 Contact Hours.

JPN 112 JAPANESE LANGUAGE II (5)

Continues Foreign Language I in the development of functional proficiency in listening, speaking, reading and writing the Japanese language.

Note: The order of the topics and the methodology will vary according to individual texts and instructors.

75 Contact Hours. Recommended Preparation: JPN 111 with grade of "C" or better

JPN 211 JAPANESE LANGUAGE III (3)

*(GT-AH4)

Continues Japanese language I and II in the development of increased functional proficiency in listening, speaking, reading and writing the Japanese language. Note: The order of the topics and the methodology will vary according to individual texts and instructors.

45 Contact Hours. Recommended Preparation: JPN 112

JPN 212 JAPANESE LANGUAGE IV (3)***(GT-AH4)**

Continues Japanese language I, II, and III in the development of increased functional proficiency in listening, speaking, reading and writing the Japanese language. Note: The order of the topics and the methodology will vary according to individual texts and instructors.

45 Contact Hours. Recommended Preparation: JPN 211

Legal Assistant

See Paralegal Studies.

LIT - Literature**LIT 115 INTRODUCTION TO LITERATURE I (3)*****(GT-AH2)**

Introduces students to fiction, poetry, and drama. Emphasizes active and responsive reading.

45 Contact Hours.

LIT 125 STUDY OF THE SHORT STORY (3)

Focuses on careful reading and interpretation of the short story as a distinct genre. It examines formal as well as thematic elements of short fiction. Critical thinking, discussion, and writing about short stories will enhance perceptive reading skills and heighten awareness of the human condition.

45 Contact Hours.

LIT 201 WORLD LITERATURE TO 1600 (3)***(GT-AH2)**

Examines significant writings in world literature from the ancients through the Renaissance. Emphasizes careful readings and understanding of the works and their cultural backgrounds.

45 Contact Hours. Recommended Preparation: LIT 115.

LIT 202 WORLD LITERATURE AFTER 1600 (3)***(GT-AH2)**

Examines significant writings in world literature from the 17th century to the present. Emphasizes careful reading and understanding of the works and their cultural backgrounds.

45 Contact Hours. Recommended Preparation: LIT 115.

LIT 205 ETHNIC LITERATURE (3)***(GT-AH2)**

Focuses on significant texts by ethnic Americans including African American, Native American, Latino/a, and Asian American writers. Emphasizes careful reading and understanding of the cultural and literary elements of the works.

45 Contact Hours. Recommended Preparation: LIT 115.

LIT 211 AMERICAN LITERATURE TO THE CIVIL WAR (3)***(GT-AH2)**

Provides an overview of American literature from the Native Americans through the 19th century Romantics. It explores ideas, historical and social contexts, themes and literary characteristics of works in various genres by major writers.

45 Contact Hours. Recommended Preparation: LIT 115.

LIT 212 AMERICAN LITERATURE AFTER THE CIVIL WAR (3)***(GT-AH2)**

Provides an overview of American literature from the mid-19th century to the present. It explores ideas, historical and social contexts, themes and literary characteristics of works in various genres by major writers.

45 Contact Hours. Recommended Preparation: LIT 115.

LIT 221 BRITISH LITERATURE TO 1770 (3)***(GT-AH2)**

Provides an overview of British literature from the Anglo-Saxon period through the 17th century. The course explores ideas, historical and social contexts, themes and literary characteristics of works in various genres by major writers.

45 Contact Hours. Recommended Preparation: LIT 115.

LIT 222 BRITISH LITERATURE SINCE 1770 (3)***(GT-AH2)**

Provides an overview of British literature from the 18th century to the present. The course explores ideas, historical and social contexts, themes and literary characteristics of works in various genres by major writers.

45 Contact Hours. Recommended Preparation: LIT 115.

LIT 225 INTRODUCTION TO SHAKESPEARE (3)***(GT-AH2)**

Explores a selection of works by William Shakespeare. It focuses on careful reading and interpretation of the plays and poems, includes pertinent information about Elizabethan England, and examines formal as well as thematic elements of the selected works.

45 Contact Hours. Recommended Preparation: LIT 115.

LIT 235 SCIENCE FICTION (3)

Examines the techniques and issues of science fiction through a close reading of a variety of writers in the genre.

45 Contact Hours. Recommended Preparation: LIT 115.

LIT 238 INTRODUCTION TO MODERN POETRY (3)

Demonstrates how modern poetry works, what it means, and how history, imagination and language are used in the act of poetic creation.

45 Contact Hours. Recommended Preparation: LIT 115.

LIT 245 LITERATURE OF THE AMERICAN WEST (3)

Examines works in various genres by writers of the American West. It investigates the dominant themes and social and historical backgrounds.

45 Contact Hours. Recommended Preparation: LIT 115.

LIT 246 LITERATURE OF WOMEN (3)

Examines the techniques and themes in literature by and about women by examining women's issues from various genres.

45 Contact Hours. Recommended Preparation: LIT 115.

LIT 248 NATIVE AMERICAN LITERATURE (3)

Examines oral and written literature created by Native American Peoples. Emphasizes narrative and ceremonial literature from the oral tradition. Examines oratory, autobiography, essays, poetry, short stories, and novels as oral and written forms.

45 Contact Hours. Recommended Preparation: LIT 115.

LIT 255 CHILDREN'S LITERATURE (3)

Evaluates the criteria for selecting appropriate literature for children through exploration of genres, age levels, values taught through literature, and the literary and artistic quality of various texts.

45 Contact Hours. Recommended Preparation: LIT 115.

LIT 257 LITERATURE AND FILM (3)

Examines the relationship between literature and motion pictures, emphasizing the technique and interpretive function of filmmakers.

45 Contact Hours. Recommended Preparation: LIT 115.

LIT 259 SURVEY OF AFRICAN AMERICAN LITERATURE (3)

***(GT-AH2)**

Examines African American literature from 1750 to the present, exploring ideas, historical and social contexts, themes and literary characteristics of works in various genres by major writers.

45 Contact Hours. Recommended Preparation: LIT 115

LIT 267 THE BIBLE AS LITERATURE (3)

Introduces the Bible as the textual centerpiece of Western literature. Students will encounter the various literary genres represented in Biblical texts, the process of canonization, ways in which the Bible has been read by its various interpretive communities, and some impacts of the Bible in such areas as law, poetry, fiction, psychology, ethics, and theology.

45 Contact Hours. Recommended Preparation: LIT 115.

LIT 268 CELTIC LITERATURE (3)

***(GT-AH2)**

Exposes the student to Irish literature. The course examines significant writings in Irish literature from the ancients through to the twenty-first century. The course emphasizes the careful reading and understanding of the works of poetry, fiction, and drama, as well as their cultural backgrounds.

45 Contact Hours. Recommended Preparation: LIT 115.

MAC - Machining Technology**MAC 138 MACHINE TOOLS (3)**

Introduces the use of basic hand tools, metal working machines, and common mechanical hardware found in an industrial or manufacturing setting. Practical aspects include safety procedures, hands-on use of machining lathes, mills, saws, and bench tools. Students will learn about piping materials, pumps, gears, bearings, and how to align shafts. Basic blue print reading review and drawing nomenclature for fasteners and threads will be covered. Welding, soldering and piping and their applications will be covered.

67.5 Contact Hours.

MAN - Management**MAN 103 MANAGING BUSINESS CHANGE (1)**

Explores how change in the workplace affects employees and customers. A description of how cultures promote behaviors will be presented. The changing roles of men and women and their impact on the workplace will be discussed and analyzed.

15 Contact Hours.

MAN 116 PRINCIPLES OF SUPERVISION (3)

Studies the principles and techniques of supervising and motivating personnel. This course is designed for students who are interested in supervising others or for those currently in supervision. Course content focuses on the human interaction in supervision.

45 Contact Hours.

MAN 117 TIME MANAGEMENT (1)

Provides students with the conceptual knowledge and tools to make better use of their time in the management function.

15 Contact Hours.

MAN 125 TEAM BUILDING (1)

Introduces the concept of working as team member. Activities and assignments will emphasize the ability to negotiate, work together, build consensus and make quality decisions.

15 Contact Hours.

MAN 128 HUMAN RELATIONS IN ORGANIZATIONS (3)

Explores the importance of effective communication in our personal lives as well as in the world of business. Practical business applications such as employee motivation, handling customer complaints, and effectively resolving conflict in the workplace will be a major part of the curriculum.

45 Contact Hours.

MAN 129 LABOR RELATIONS (3)

Provides an analysis of labor economics, collective bargaining, labor laws, legal issues, and the role of the government in labor relations.

45 Contact Hours.

MAN 160 ENTREPRENEURSHIP (3)

Teaches entrepreneurs planning skills from business concept development to the actual development of a comprehensive business plan. This practical approach includes one-on-one counseling with the instructor and professional volunteer counselors. Guest speakers are an integral part of the course. Topics include marketing strategies and tactics, profitability, human resource management, financial management and projections, innovations, and loan negotiations.

45 Contact Hours.

MAN 200 HUMAN RESOURCES MANAGEMENT I (3)

Provides the student with a broad overview of the contemporary issues, theories and principles used to effectively manage human resources. Topics include recruiting, hiring, compensation and benefits, training and development, employee relations and legal issues.

45 Contact Hours.

MAN 201 HUMAN RESOURCES MANAGEMENT II (3)

Offers further discussion of concepts of Human Resources. Topics covered include techniques and procedures in resources planning, appraising performance, selection and staffing, training and development, job enrichment, and wage and salary administration.

45 Contact Hours. Prerequisite: MAN 200

MAN 205 EVENT PLANNING (3)

Presents the components of meeting planning; organization, personnel, finances, site selection, transportation, program design, promotion, arranging exhibits and evaluations.

45 Contact Hours.

MAN 212 NEGOTIATION AND CONFLICT RESOLUTION (3)

Presents proper techniques in negotiation and conflict resolution. Key practices that determine successful negotiation are explored. This course covers principles of conflict resolution including business policies, accepted business practices contracts, labor union contracts, pay raises and starting salaries.

45 Contact Hours.

MAN 215 ORGANIZATIONAL BEHAVIOR (3)

Examines the behavior of groups and individual members of organizations and how that behavior can be influenced. Course emphasis is on the tools managers use to achieve organizational effectiveness.

45 Contact Hours.

MAN 216 SMALL BUSINESS MANAGEMENT (3)

Examines the elements necessary for the successful formation of a new small business. It is also designed to enhance the skills of those already involved in the operation of a small business. The course includes the development of a complete small business plan.

45 Contact Hours.

MAN 224 LEADERSHIP (3)

Focuses on leadership skills necessary to bring about change in an organization. Students learn to develop and communicate a shared vision, to empower employees, to manage conflict, to negotiate, and to develop organizations so that all are working toward common goals.

45 Contact Hours.

MAN 225 MANAGERIAL FINANCE (3)

Examines the concepts and techniques used to analyze financial accounting information for managerial planning, decision-making and control. The focus of the course is on decision-making relating to the areas of budgets, forecasts, cost volume production, Return on Investment (ROI) and financial statements.

45 Contact Hours.

MAN 226 PRINCIPLES OF MANAGEMENT (3)

Presents a survey of the principles of management. Emphasis is on the primary functions of planning, organizing, leading and controlling with a balance between the behavioral and operational approach.

45 Contact Hours.

MAN 230 CORPORATE ETHICS & SOCIAL RESP (3)

Examines the concept of corporate responsibility to the extent of which an organization's resources should be used to identify and respond to social and ethical problems. Included in the course will be topics of corporate and social responsibility, and the concept of servant leadership, and how this applies to business and management principles.

45 Contact Hours.

MAN 240 STRATEGIC MANAGEMENT (3)

Presents the development of business policy and the integration of skills learned in prior business study, including strategy formulation, implementation and evaluation. Focus is on the coordination of marketing, production, finance, accounting, and ethics and social responsibility to achieve competitive advantage.

45 Contact Hours.

MAN 241 PROJECT MANAGEMENT IN ORGANIZATIONS (3)

Introduces students to the planning, implementation and control activities of project management, including project and performance evaluation, quality control and workflow analysis. Emphasis will be on the initiating, planning, executing, controlling and closing activities of Project Management.

45 Contact Hours.

MAN 242 PROJECT MANAGEMENT TOOLS AND TECHNIQUES (3)

Emphasizes project management techniques and tools wherein students will learn the necessary skills to track a project, keeping it on time and within budget. Students will apply software to solve project cases and to construct scheduling charts and reports.

45 Contact Hours. Prerequisite: MAN 241.

MAN 278 SEMINAR (2)

Provides students with experiential learning opportunities in the management area.

30 Contact Hours. Prerequisites: ACC 121, BUS 115, BUS 216, MAN 126, MAN 226, and MAR 216.

MAR - Marketing**MAR 106 MARKETING YOUR IMAGE (3)**

Teaches students how to market themselves to prospective employers, clients, professional groups, and audiences of all types. Major emphasis will be placed on skills used to gain employment (resumes, interviewing, and professional appearance) and on skills used to achieve continued personal success (professional behavior and attitude). The course will include at least one simulated interview.

45 Contact Hours.

MAR 111 PRINCIPLES OF SALES (3)

Enables students to understand and develop ethical sales techniques and covers the role of selling in the marketing process. Areas of emphasis include behavioral considerations in the buying and selling process and sales techniques.

45 Contact Hours.

MAR 117 PRINCIPLES OF RETAILING (3)

Emphasizes the study of the basic principles and techniques of merchandising operations, layout, store organization, site location and customer service with an emphasis on retailing operations.

45 Contact Hours.

MAR 160 CUSTOMER SERVICE (3)

Enables students to learn the relationship of self to customers, problem solve and understand the importance of communicating with customers. Specific emphasis is given to managing customer expectations by building customer rapport and creating positive outcomes.

45 Contact Hours.

MAR 216 PRINCIPLES OF MARKETING (3)

Presents the analysis of theoretical marketing processes and the strategies of product development, pricing, promotion

and distribution, and their applications to business and the individual consumer.

45 Contact Hours.

MAR 217 E-COMMERCE MARKETING (3)

Explores new marketing strategies that have emerged as areas of information technology and the Internet have evolved. This course examines traditional marketing concepts of buying behavior, promotion, production and others; then redefines them as they apply to marketing on the World Wide Web. Web fundamentals, e-marketing trends, strategies, models and research will be examined.

45 Contact Hours.

MAR 220 PRINCIPLES OF ADVERTISING (3)

Examines the principles and practices of advertising and its relationship to business in order to promote a business or organization. Areas of major emphasis include advertising principles, strategies, media, copy and layout, and ethical considerations.

45 Contact Hours.

MAR 222 IMPLEMENTING E-COMMERCE (3)

Provides the student with practical skills and knowledge of e-commerce implementation methodology. Topics include strategic planning for e-commerce, project management, change management, role of technology, implementation planning and assessment. Students use case studies to examine standards and practices of businesses implementing e-commerce applications and solutions.

45 Contact Hours.

MAR 235 CONSUMER BEHAVIOR (3)

Enables the student to understand the variables that affect consumer behavior in the marketplace and the implications of this knowledge for marketing decisions and strategies.

45 Contact Hours.

MAR 240 INTERNATIONAL MARKETING (3)

Enables the student to explore the international marketing for U.S. products, and to explore the increasing competitive international environment and recent changes in the environment that have challenged U.S. business. The course is designed to make the reader an informed observer of the global market place as well as enabling him/her to develop skills to make marketing decisions in a global context.

45 Contact Hours.

MAR 245 SALES MANAGEMENT (3)

Explores management of the selling function. It includes forecasting, organization of the sales force, recruiting, selection, training, compensation, retention and territory management.

45 Contact Hours.

MAT - Mathematics

MAT 030 FUNDAMENTALS OF MATHEMATICS (2)

Explores the vocabulary, operations and applications of whole numbers, decimals, fractions and mixed numbers. For students with an Arithmetic ACCUPLACER score of 24-56.

30 Contact Hours. Prerequisite: Appropriate math diagnostic scores required.

MAT 045 COMPRESSED PRE ALGEBRA WITH BASIC MATHEMATICS (4)

Explores the vocabulary, operations and applications of whole numbers, decimals, basic fractions and mixed numbers. It further investigates topics including fractions, mixed numbers, ratios, proportions, percentages, measurements, integers, introduction to algebraic expressions and the solution of basic first degree equations. Designed for students with an Elementary Algebra score of less than 45 and an Arithmetic ACCUPLACER score of 24-120. This course is a combination of MAT 030 and 060.

60 Contact Hours. Prerequisite: Appropriate math diagnostic scores required.

MAT 060 PRE-ALGEBRA (3)

Explores the vocabulary, operations and applications of fractions, mixed numbers, ratios, proportions, percentages, measurements, integers, introduction to algebraic expressions and the solution of basic first degree equations. Designed for students with an Elementary Algebra score of less than 45 and an Arithmetic ACCUPLACER score of 57-120.

45 Contact Hours. Prerequisite: Appropriate math diagnostic scores required or grade of "C" or better in MAT 030.

MAT 074 ENHANCED MAT 121 SUPPORT (0)

Support MAT121 classroom instruction. Provide a bridge between students' previous math experience and the content in MAT 121. Accentuate problem recognition and problem solving strategies. Explore and apply technology, including the graphing calculator, to connect the graphical and equation form of functions, visualize domains, ranges and asymptotes and solve a variety of application problems.

15 Contact Hours. Corequisite: MAT 121. Prerequisite: MAT 096 or MAT 099 with a grade of "C" or better or appropriate diagnostic scores.

MAT 090 INTRODUCTORY ALGEBRA (4)

Includes first-degree equations, inequalities, formulas, polynomials, factoring polynomials, solving quadratic equations by factoring, coordinate geometry, graphing linear equations and applications. Algebraic fractions and systems of linear equations may be included.

60 Contact Hours. Prerequisite: MAT 045 or MAT 060 with a grade of "C" or better or appropriate math diagnostic scores required.

MAT 096 COMBINED INTRODUCTORY AND INTERMEDIATE ALGEBRA (6)

Includes first-degree equations, inequalities, formulas, polynomials, factoring polynomials, solving quadratic equations by factoring, coordinate geometry, graphing linear equations and applications. Algebraic fractions and systems of linear equations may be included. Emphasizes problem solving with further study of equations, slope, inequalities, systems of equations, polynomials, quadratic equations, rational expressions, rational exponents, radical expressions, graphing and applications. A graphing calculator or equivalent software may be utilized.

90 Contact Hours. Prerequisite: MAT 045 or MAT 060 with a grade of "C" or better or an accuplacer score of 61-84 or other appropriate math diagnostic scores required.

MAT 099 INTERMEDIATE ALGEBRA (4)

Emphasizes problem solving with further study of equations, slope, inequalities, systems of equations, polynomials, quadratic equations, rational expressions, rational exponents, radical expressions, graphing and applications. A graphic calculator or equivalent software may be utilized.

60 Contact Hours. Prerequisite: Appropriate mathematics diagnostic scores required or grade of "C" or better in MAT 090.

MAT 101 ENHANCED MATHEMATICS SUPPORT (1)

Supplements mathematics classroom instruction through the Mathematics Support Center, a student-centered learning environment. Students will be able to utilize the following resources: professional and peer tutoring, mathematics and tutorial software, online tutorial resource, videotapes, and training guides for these resources. Students will also be able to obtain help with calculators and mathematical software.

15 Contact Hours.

MAT 103 MATH FOR CLINICAL CALCULATIONS (3)

Provides a review of general mathematics, introductory algebra and an opportunity to learn systems of measurement and methods of solving problems related to drug dosage and intravenous fluid administration. It is designed for students in the health disciplines. Topics may include algebra, graphs, measurement and conversion between various systems of measurement.

45 Contact Hours. Prerequisite: MAT 090 with a grade of "C" or higher or appropriate diagnostic scores. Note: MAT 103 cannot be applied to any AA or AS Degrees as well as some AAS degrees.

MAT 107 CAREER MATHEMATICS (3)

Covers material designed for career technical or general studies students who need to study particular mathematical topics. Topics may include measurement, algebra, geometry, trigonometry, graphs, and/or finance. These are presented on an introductory level and the emphasis is on applications.

45 Contact Hours. Prerequisite: MAT 045 or MAT 060 with a grade of "C" or better or appropriate diagnostic scores required. Note: MAT 107 cannot be applied to any AA or AS Degrees as well as some AAS degrees.

MAT 108 TECHNICAL MATHEMATICS (4)

Covers material designed for career technical or general studies students who need to study particular mathematical topics. Topics may include measurement, algebra, geometry, trigonometry, graphs, and/or finance. These are presented on an introductory level and the emphasis is on applications.

60 Contact Hours. Prerequisite: MAT 045 or MAT 060 with a grade of "C" or better or appropriate diagnostic scores required. Note: MAT 108 cannot be applied to any AA or AS Degrees as well as some AAS degrees.

MAT 120 MATHEMATICS FOR THE LIBERAL ARTS (4)

***(GT-MA1)**

(Cannot be applied toward A.S. Degree)

Develops mathematical and problem-solving skills. Appropriate technological skills are included. Content is selected to highlight connections between mathematics and the society in which we live. Topics include set theory and logic, mathematical modeling, probability and statistical methods, and consumer mathematics. Additional content will include one topic in geometry, numeration systems, decision theory, or management science.

60 Contact Hours. Prerequisite: MAT 096 or MAT 099 with a grade of "C" or better or appropriate diagnostic scores.

MAT 121 COLLEGE ALGEBRA (4)

***(GT-MA1)**

Includes a brief review of intermediate algebra, equations and inequalities, functions and their graphs, exponential and logarithmic functions, linear and non-linear systems, selection of topics from among graphing of the conic sections,

introduction to sequences and series permutations and combinations, the binomial theorem and theory of equations.

60 Contact Hours. Prerequisite: MAT 096 or MAT 099 with a grade of "C" or better or appropriate diagnostic scores.

MAT 122 COLLEGE TRIGONOMETRY (3)

***(GT-MA1)**

Covers topics including trigonometric functions (with graphs and inverse functions), identities and equations, solutions of triangles, complex numbers, and other topics as time permits. This is a traditional prerequisite course to the calculus sequence.

45 Contact Hours. Prerequisite: MAT 121 with a grade of "C" or better or appropriate math diagnostic scores.

MAT 125 SURVEY OF CALCULUS (4)

***(GT-MA1)**

Includes derivatives, integrals, and their applications, with attention restricted to algebraic, exponential, and logarithmic functions for business, life science and/or social science majors.

60 Contact Hours. Prerequisite: MAT 121 with a grade of "C" or better or MAT 123 with a grade of "C" or better.

MAT 135 INTRODUCTION TO STATISTICS (3)

***(GT-MA1)**

(Cannot be applied toward A.S. Degree)

Includes data presentation and summarization, introduction to probability concepts and distributions, statistical inference-estimation, hypothesis testing, comparison of populations, correlation and regression.

45 Contact Hours. Prerequisite: MAT 096 or MAT 099 with a grade of "C" or better or appropriate diagnostic scores.

MAT 155 INTEGRATED MATHEMATICS I (3)

(Cannot be applied toward A.S. Degree)

Engages students in the concepts of school mathematics, the course will include the recognition of numerical and geometric patterns and their application to a variety of mathematical situations; mathematical problem-solving, reasoning, critical thinking, and communication; algebraic thinking, representation, analysis, manipulation, generalizations and extensions.

45 Contact Hours. Prerequisite: MAT 096 or MAT 099 with a grade of "C" or better or appropriate diagnostic scores.

MAT 156 INTEGRATED MATHEMATICS II (3)

(Cannot be applied toward A.S. Degree)

Furthering MAT 155 concepts, the course will include fundamentals of probability, statistics, and Euclidean geometry. Mathematical problem-solving, reasoning, critical thinking and communication will continue to be an integral part of this sequence.

45 Contact Hours. Prerequisite: MAT 096 or MAT 099 with a grade of "C" or better or appropriate diagnostic scores.

MAT 166 PRE-CALCULUS (5)

***(GT-MA1)**

Reviews college algebra and college trigonometry intended for those planning to take calculus. Topics include algebraic manipulations, properties of algebraic and trigonometric functions and their graphs, trig identities and equations, conic sections, polar coordinates and parametric equations.

75 Contact Hours. Prerequisite: MAT 121 with a "C" or higher or appropriate math diagnostic scores.

MAT 201 CALCULUS I (5)***(GT-MA1)**

Introduces single variable calculus and analytic geometry. Includes limits, continuity, derivatives, and applications of derivatives as well as indefinite and definite integrals and some applications.

75 Contact Hours. Prerequisites: MAT 122 with a grade of "C" or better or MAT 166 with a grade of "C" or better or appropriate math diagnostic scores.

MAT 202 CALCULUS II (5)***(GT-MA1)**

Continuation of single variable calculus that will include techniques of integration, polar coordinates, analytic geometry, improper integrals, and infinite series.

75 Contact Hours. Prerequisite: MAT 201 with a grade of "C" or better.

MAT 203 CALCULUS III (4)***(GT-MA1)**

Completes the traditional subject matter of the Calculus. Topics include vectors, vector-valued functions and multivariable calculus including partial derivatives, multiple integrals, line integrals and application.

60 Contact Hours. Prerequisite: MAT 202 with a grade of "C" or better or MAT 204 with a grade of "C" or better.

NOTE: This course is available via CCCOnline

MAT 204 CALCULUS III WITH ENGINEERING APPLICATIONS (5)***(GT-MA1)**

Includes all the topics of MAT 203 Calculus III with an additional emphasis on word problems and problem solving. This is the third course in the three-course calculus sequence. This course will additionally contain a thorough examination of multiple integration. This will include double and triple integrals, line integrals, Stokes' and Green's Theorems, and their applications. A graphing calculator is required for this course.

75 Contact Hours. Prerequisite: MAT 202 with a grade of "C" or better.

MAT 255 LINEAR ALGEBRA (3)

Includes vector spaces, matrices, linear transformations, matrix representation, eigenvalues, and eigenvectors.

45 Contact Hours. Prerequisite: MAT 202 with a grade of "C" or better.

MAT 265 DIFFERENTIAL EQUATIONS (3)***(GT-MA1)**

Emphasizes techniques of problem solving and applications. Topics include first, second and higher order differential equations, series methods, approximations, systems of differential equations, and Laplace transforms.

45 Contact Hours. Prerequisite: MAT 202 with a grade of "C" or better.

MAT 266 DIFFERENTIAL EQUATIONS WITH LINEAR ALGEBRA (4)

Covers first and second order differential equations, series solutions, Laplace transforms, linear algebra, eigenvalues, first order systems of equations, and numerical techniques are covered.

60 Contact Hours. Prerequisite: MAT 202 with a grade of "C" or better.

MET - Meteorology**MET 150 GENERAL METEOROLOGY (4)*****(GT-SC1)**

Provides an introduction to general meteorology and atmospheric sciences. It includes the composition and structure of the atmosphere and characteristics that affect the atmosphere, such as temperature, pressure, and moisture. Additionally, the development of weather systems such as storm systems, hurricanes, weather fronts and cloud development will also be examined. Finally, concepts of climatology will be stressed.

75 Contact Hours (45 lecture hours, 30 lab hours).

MGD - Multimedia Graphic Design**MGD 102 INTRODUCTION TO MULTIMEDIA (3)**

Introduces the types of equipment and technical considerations used in multimedia productions and the multimedia professions. It focuses on current types of equipment such as scanners, printers, digital cameras and computers. Students gain hands-on experience in how the technology is utilized for input and output in production and design projects. Overview of software and basic design principles will be explored.

60 Contact Hours.

MGD 103 PRODUCTION DESIGN (3)

Explores the use of tools, computer graphics techniques and design layout principles to produce professional graphic designs. Studies include printing basics, typography and digital color systems. Students use creative thinking to solve communication and design concepts for the output process.

60 Contact Hours. Corequisite: MGD 111 or MGD 112 or MGD 114 unless you have already taken one of these classes.

MGD 104 VIDEOGRAPHY (3)

Offers an introduction to the principles and techniques of videotape production, including camera operation, basic script writing, lighting, sound and basic digital editing. Detailed examination of the pre-production, production, and post-production processes, as well as aesthetics, will be included.

60 Contact Hours. Recommended Preparation: Basic keyboarding, knowledge of an operating system and at least one multimedia software application.

MGD 106 CREATIVE & VISUAL THINKING (3)

Introduces the visual and oral skills necessary to analyze works of art and design, articulate complex ideas, then present the solution cogently in 2-D and 3-D projects and presentation skill building. The underlying philosophy of what we see, how we see and what we do with it is the major concern of this class.

60 Contact Hours.

MGD 109 DESIGN AND COLOR (3)

Covers the design process and creative problem solving. Design and color theories, fundamentals, styles, stages area applied to workups, finished art and presentations. Emphasis will be on line, form, composition and continuity.

60 Contact Hours. Recommended Preparation: Basic keyboarding, knowledge of an operating system and at least one multimedia software application.

MGD 111 ADOBE PHOTOSHOP I (3)

Concentrates on the high-end capabilities of a raster photo-editing software as an illustration, design and photo-retouching tool. Students explore a wide range of selection and manipulation techniques that can be applied to photos, graphics and videos.

60 Contact Hours. Recommended Preparation: Basic keyboarding and knowledge of an operating system.

MGD 112 ADOBE ILLUSTRATOR I (3)

Acquaints students with the processes of a vector-drawing program on the computer. Students learn how to use the tools to create digital artwork that can be used in web design, print media and digital screen design.

60 Contact Hours. Recommended Preparation: Basic keyboarding and knowledge of an operating system.

MGD 114 ADOBE INDESIGN (3)

Introduces students to InDesign, a page layout program that integrates seamlessly with other Adobe design programs. InDesign delivers creative freedom and productivity to graphic design. Class discussions and independent projects supplement hands-on classroom work.

60 Contact Hours. Recommended Preparation: Basic keyboarding, knowledge of an operating system and at least one multimedia software application.

MGD 116 TYPOGRAPHY I (3)

Introduces the history and concepts of typography as applied to graphic communications. Explores appropriate use of typography in a variety of design applications, emphasizing the basic design principles of typographic compositions and typesetting. Covers type recognition and typographic terms.

60 Contact Hours. Corequisite: MGD 112 unless you have already taken this class.

MGD 117 INTRODUCTION TO VISUAL COMMUNICATIONS (3)

Surveys visual communications, its history and impact on society. A foundation course for graphic design and illustration majors and a survey for non-majors who are interested in the field. Assignments require minimal artistic talent.

60 Contact Hours. Note: Overview of software and basic design principles will be explored.

MGD 121 PAINTER FOR DIGITAL MEDIA (3)

Teaches students how to work with an illustration and paint software application called Painter. Color and relationships, repeat patterns, animation and digitization are among the topics covered in the course as students explore the possibilities of visual art using computers. Assigned projects cover a wide range of visual approaches. Painter provides an extra competitive edge for students.

60 Contact Hours. Recommended Preparation: Basic keyboarding, knowledge of an operating system and at least one multimedia software application.

MGD 123 BRYCE (3)

Exploits the unique abilities of Bryce for creating photo realistic natural scenes in 3D. Students will learn the tools, techniques and concepts involved in the use of the software. Additionally, students will study the works of premiere Bryce artists and create numerous images and animations of their

own. Emphasis will be placed on structure, composition, lighting and color theory.

60 Contact Hours. Recommended Preparation: Basic keyboarding, knowledge of an operating system and at least one multimedia software application.

MGD 128 MULTIMEDIA HARDWARE (3)

Teaches the principles and techniques of maintaining, upgrading, and customizing personal computer systems. Emphasis will also be placed on various emerging and established technologies related to graphic computing.

60 Contact Hours. Recommended Preparation: Basic keyboarding, knowledge of an operating system and at least one multimedia software application.

MGD 133 GRAPHIC DESIGN I (3)

Focuses upon the study of design layout and conceptual elements concerning graphic design projects such as posters, advertisements, logos, and brochures.

60 Contact Hours. Corequisite: MGD 111 or MGD 112 or MGD 114 unless you have already taken one of the three courses.

MGD 134 DRAWING FOR ILLUSTRATORS (3)

Covers fundamental skills and theories of drawing and rendering line structure, form, value, texture and composition. Application of drawing skills with media for line quality, as well as value and texture interpretation, are also covered.

60 Contact Hours.

MGD 141 WEB DESIGN I (3)

Introduces the fundamentals of HTML syntax using a simple text editor to create a web page. Web-safe colors and the use of graphic editors will be explored. Students study web aesthetics and intuitive interface design. The course emphasizes file organization and layout including tables and frames.

60 Contact Hours. Recommended Preparation: Basic keyboarding, knowledge of an operating system and at least one multimedia software application.

MGD 143 MOTION GRAPHIC DESIGN I (3)

Stresses creation of animated GIFs and dynamic, interactive media for Web applications. Students will learn how to draw objects, create symbols, and assemble motion tweens.

60 Contact Hours. Recommended Preparation: keyboarding and a demonstrated knowledge of the Windows and/or Macintosh operating system with a working knowledge of at least one multimedia software application, such as, Adobe Photoshop or Adobe Illustrator. Without a working knowledge of multimedia software, the student needs the permission of the instructor to enroll.

MGD 152 DIGITAL ANIMATICS (3)

Introduces the steps followed by professional animators and game designers for producing media in a digital environment. Students learn the foundational skills of planning, organizing, storyboarding and pre-visualization techniques necessary to create animated stories. Students will also study the history of animation and game design.

60 Contact Hours.

MGD 153 3D ANIMATION I (3)

Encompasses all major aspects of creating 3D characters using animation software. Using developed characters, the student will learn how to animate for personality.

60 Contact Hours. Recommended Preparation: Basic keyboarding, knowledge of an operating system and at least one multimedia software application.

MGD 161 DIRECTOR I (3)

Examines Macromedia Director, the leading authoring tool for interactive multimedia from the art director's perspective. Students will learn the basics of 2D animation for both computer presentations and the web. Interface design and scene development is emphasized. Hands-on projects include lingo scripts, behaviors, adding sound and digital video to students' movies.

60 Contact Hours. Recommended Preparation: Basic keyboarding, knowledge of an operating system and at least one multimedia software application.

MGD 163 SOUND DESIGN I (3)

Explores the use of sound in multimedia production and audio storytelling. Students examine the principles of recording. Classes focus on how sound can enhance interactive productions and improve computer presentations. Students learn how to use the computer as a full audio editing studio.

60 Contact Hours. Recommended Preparation: Basic keyboarding, knowledge of an operating system and at least one multimedia software application.

MGD 164 DIGITAL VIDEO EDITING I (3)

Introduces to digital non-linear video editing. Students will capture, compress, edit, and manipulate video images using a personal computer. Assembly techniques including media management, editing tools, titles, and motion control; transitions and filters, and special effects are explored.

60 Contact Hours. Recommended Preparation: Basic keyboarding, knowledge of an operating system and at least one multimedia software application.

MGD 165 AFTER EFFECTS I (3)

Provides the fundamental techniques for creating digital motion graphics such as 2D animations, animated logos, video graphics, etc. Classes cover relevant tools and techniques as well as industry standards, delivery methods and output.

60 Contact Hours. Recommended Preparation: Basic keyboarding, knowledge of an operating system and at least one multimedia software application.

MGD 167 GAME DESIGN I (3)

Introduces students to game design from conceptual development and functionality, through production of a virtual world prototype. Students examine such things as character registration, in-betweens, inking and clean up used for creating real-time game environments. Storytelling and visual metaphor development are emphasized.

60 Contact Hours. Recommended Preparation: Basic keyboarding, knowledge of an operating system and at least one multimedia software application.

MGD 202 POINT OF PURCHASE PACKAGE DESIGN (3)

Introduces the theories and principles that apply to three-dimensional design graphics for packaging and display; various dimensional marketing solutions to create dynamic visual effects concepts will be developed. Work layout stages and mock-ups will utilize various methods of cutting, folding, and assembly to explore the design concepts and their visual effects.

60 Contact Hours. Prerequisite or Corequisite: MGD 111 or MGD 112.

MGD 203 DESIGN AND CONCEPT (3)

Covers the process of comprehensive problem solving of complex and advanced print design. Provides experience in digital production of designs, using multiple computer applications emphasizing concept.

60 Contact Hours. Prerequisite: MGD 103

MGD 204 VIDEOGRAPHY II (3)

Offers advanced study of digital video imaging concepts using digital cameras. Heavy emphasis is placed upon media aesthetics and the creative integration of sight, sound, and motion in student projects.

60 Contact Hours. Prerequisite: MGD 104

MGD 211 ADOBE PHOTOSHOP II (3)

Develops and reinforces image composition techniques learned in Adobe Photoshop I, MGD 111. Fundamentals are continuously reinforced as new design techniques are introduced.

60 Contact Hours. Prerequisite: MGD 111.

MGD 212 ADOBE ILLUSTRATOR II (3)

Enables the student to continue development of electronic drawing skills through practice and use of state-of-the-art illustration software.

60 Contact Hours. Prerequisite: MGD 112.

MGD 221 COMPUTER GRAPHICS I (3)

Introduces the process of generating computer design.

60 Contact Hours.

MGD 222 COMPUTER GRAPHICS II (3)

Continues MGD 221 with advanced problems in generating computer design for graphics application, emphasizing production of individual fine art pieces.

60 Contact Hours. Prerequisite: MGD 221.

MGD 233 GRAPHIC DESIGN II (3)

Continues instruction in idea development for advanced graphic design.

60 Contact Hours. Prerequisite: MGD 133.

MGD 241 WEB DESIGN II (3)

Expands on previously learned fundamentals of HTML introducing cascading style sheets, DHTML, JavaScripts and CGI forms. Color usage and interface design principles are emphasized in this course. In this course we'll examine websites that employ more complex structures, optimal site architecture and navigation necessary for larger and more complex sites.

60 Contact Hours. Prerequisite: MGD 141.

MGD 242 WEB ARCHITECTURE: OPEN SOURCE (3)

Provides an overview of current open source tools used in the design industry for designing and implementing Web architecture. Course content changes with trends in the industry. Topics may include current content management platforms such as WordPress and Drupal, how to identify web scripting languages, and an overview of open source programming such as PHP and MySQL.

60 Contact Hours.

MGD 243 WEB MOTION GRAPHIC DESIGN II (3)

Stresses the complex creation of 2D animated motion graphics concentrating on the prior skills learned and the use

of scripting and behaviors. Students will create motion graphics using these skills and apply them to websites. Website justification of motion graphics will be stressed, appraised and weighed.

60 Contact Hours. Prerequisite: MGD 143.

MGD 253 3D ANIMATION II (3)

Addresses more advanced aspects of creating 3D characters on the computer. Students also examine facial animation, lip synchronization, scene design and lighting set-ups.

60 Contact Hours. Prerequisite: MGD 153.

MGD 256 GRAPHIC DESIGN PRODUCTION (3)

Provides an opportunity to combine several draw and paint applications into one design and layout class. Students will explore advanced techniques in creating and designing computer art.

60 Contact Hours. Prerequisite: MGD 114

MGD 257 ANIMATION PRODUCTION (3)

Examines development of 3D animation from a production standpoint. The process of transforming conceptual designs into actual projects is explored. Students study the management function of those tasks associated with the business end of development. The student will produce a 3D animation project.

60 Contact Hours. Prerequisite: MGD 253

MGD 258 WEB DESIGN PRODUCTION (3)

Stresses website development and usability issues, as well as, pre-production, production and post-production concepts. Students will prepare project evaluations, objectives and analysis reports, project budgets and time-lines, content outlines, storyboards, and flow charts. Students will also examine interactive interface design for several Web applications. Projects will vary from semester to semester.

60 Contact Hours. Prerequisite: MGD 241

MGD 259 MANAGEMENT AND PRODUCTION (3)

Examines development of multimedia from a production standpoint. The process of transforming conceptual designs into actual projects is explored. Students study the management function of those tasks associated with the business end of development. Teamwork is emphasized throughout the course.

60 Contact Hours. Prerequisite: Permission of instructor.

MGD 261 DIRECTOR II (3)

Explores the interactive process within all areas of program design; immersive creations, courseware authoring, delivery techniques and instruction strategies. Students are introduced to advanced Lingo scripting, 3D object integration and Shockwave Multiuser Server to provide more expansive interactive capabilities.

60 Contact Hours. Prerequisite: MGD 161.

MGD 264 DIGITAL VIDEO EDITING II (3)

Looks at the more complex and advanced techniques of digital video editing. Areas of editing such as masking, filtering, blue/green screening, track mattes, and image mattes will be examined. Students will produce a movie project in this class and discuss practical ways to distribute to various audiences.

60 Contact Hours. Prerequisite: MGD 164.

MGD 266 DVD AUTHORIZING (3)

Introduces students to all aspects of DVD authoring covering: source acquisition, DVD production, interface design, organization, management and appropriate DVD output solutions. Prerequisite MGD 111 or instructor approval.

60 Contact Hours.

MGD 268 COMMERCIAL ART BUSINESS (2)

Presents a guide to freelance work and a study of business practices and procedures unique to commercial art including billing rates, client management, business forms, employee management, taxes, licenses, registration, bid processes and self-promotion. Course may include visits by professionals in the field and discussion of career opportunities and professional organizations.

30 Contact Hours.

MOT - Medical Office Technology

MOT 110 MEDICAL OFFICE ADMINISTRATION (4)

Introduces the administrative duties specifically used in medical offices.

60 Contact Hours. Corequisites: ENG 121 and HPR 178.

MOT 120 MEDICAL OFFICE FINANCIAL MANAGEMENT (3)

Covers the practical uses of accounts and records with emphasis on accounting principles and analysis for use in a medical office.

45 Contact Hours. Corequisites: HPR 178 and CIS 118 unless the class has already been taken.

MOT 125 BASIC MEDICAL SCIENCES I (3)

Teaches the anatomy and physiology, pathophysiology and drug therapy of the immune, musculoskeletal and digestive systems. A discussion of pediatric implications as they relate to clinical physiology will also be covered. This course is a follow-on course from MOT 133. Students may take MOT 125, MOT 133 and MOT 135 in any order, but all three courses must be completed to meet the Basic Medical Sciences requirement.

67.50 Contact Hours.

MOT 130 INSURANCE, BILLING AND CODING (3)

Introduces outpatient coding with an ultimate goal to present a clear picture of medical procedures and services performed (CPT codes), correlating the diagnosis, symptom, complaint or condition (ICD-9 codes), thus establishing the medical necessity required for third-party reimbursement.

45 Contact Hours. Prerequisite: HPR 178 with a grade of "C" or better. Corequisites: MOT 120 and HPR 137 unless the class has already been taken.

MOT 132 MEDICAL TRANSCRIPTION I (4)

Provides basic knowledge, understanding and skills required to transcribe medical dictation with accuracy, clarity, and timeliness applying the principles of professional and ethical conduct.

60 Contact Hours. Corequisites: ENG 121 and HPR 178 unless these courses are taken earlier.

MOT 133 BASIC MEDICAL SCIENCES II (3)

Teaches the anatomy and physiology, pathophysiology and drug therapy of the cardiovascular, respiratory and dermatology systems. This course is a follow-on course from MOT 123. Students may take MOT 125, MOT 133 and MOT 135

in any order, but all three courses must be completed to meet the Basic Medical Sciences requirement.

67.50 Contact Hours.

MOT 135 BASIC MEDICAL SCIENCES III (3)

Covers the anatomy and physiology, pathophysiology and drug therapy of the Renal, Reproductive, Neurological and Endocrine systems. Students may take MOT 125, MOT 133 and MOT 135 in any order, but all three courses must be completed to meet the Basic Medical Sciences requirement.

45 Contact Hours.

MOT 136 INTRODUCTION TO CLINICAL SKILLS (2)

Provides hands-on experience with the basic clinical skills required for assisting with patient care. Delivers the theory behind each skill presented as well as proper technique for performing each skill. Includes knowledge and/or performance of blood-borne pathogens/Occupational Safety and Health Administration (OSHA) regulations, medical asepsis, procedural gloving, patient gowning, positioning and measurement of vital signs.

45 Contact Hours.

MOT 138 MEDICAL ASSISTING LABORATORY SKILLS (4)

Introduces the student to basic routine laboratory skills and techniques for collection, handling, and examination of laboratory specimens often encountered in the ambulatory care setting. Emphasizes hands-on experience.

75 Contact Hours. Prerequisites: BIO 106, HPR 106, HPR 178, MOT 136 and PSY 101, all with a grade of "C" or better. Corequisites: HPR 137, MOT 140, MOT 150, and MOT 182 or MOT 183 unless any of these classes have already been taken.

MOT 140 MEDICAL ASSISTING CLINICAL SKILLS (4)

Provides hands-on experience with the clinical skills required for assisting with patient care. Delivers the theory behind each skill presented as well as proper technique for performing each skill.

90 Contact Hours. Prerequisites: BIO 106, HPR 106, HPR 178, MOT 136 and PSY 101. Corequisites: HPR 137, MOT 138, MOT 150 and MOT 182 or MOT 183 unless any of these classes have already been taken.

MOT 142 MEDICAL TRANSCRIPTION II (4)

Uses a simulation approach to build student vocabulary and speed, while providing actual medical transcription of a variety of health care and medical reports at progressively increasing accuracy and productivity standards.

90 Contact Hours. Prerequisites: BIO 106, CIS 135, ENG 121, HPR 106, HPR 178 and MOT 132. Corequisites: HPR 137, MOT 150 and MOT 180 unless any of these classes have already been taken.

MOT 150 PHARMACOLOGY FOR MEDICAL ASSISTANTS (3)

Provides an overview of pharmacology language, abbreviations, systems of measurement and conversions. The Controlled Substance Act, prescriptions, forms of medications, patient care applications, drug classifications/interactions, and safety in drug therapy and patient care are presented. Information regarding the measurement of medications, dosage calculations, routes of administration, and commonly prescribed drugs in the medical office is provided.

53 Contact Hours (30 lecture hours, 23 lab hours). Prerequisites: BIO 106, HPR 106 and HPR 178. Within two academic years prior to course enrollment, must attain math Accuplacer scores or grade of "C" or better in MAT 060. Corequisite: HPR 137.

See the list of Specialized Courses on the first page of this Course Offerings section.

MOT 180 MEDICAL TRANSCRIPTION INTERNSHIP (3)

Provides supervised placement in a contracted facility for guided experience in the application of knowledge and skills acquired in the classroom. Student must have permission by the program coordinator to begin internship. Positions are non-paid.

105 Contact Hours (15 lecture hours, 90 lab hours). Prerequisite: Completion of all Medical Transcription coursework including BIO 106, CIS 135, ENG 121, HPR 106, HPR 137, HPR 178, MOT 132, MOT 142, MOT 150, and MOT 136 with a grade of "C" or better in each course.

MOT 181 ADMINISTRATIVE INTERNSHIP (3)

Provides supervised placement in a contracted facility for guided experience in the application of knowledge and skills acquired in the classroom. Student must have permission by the program coordinator to begin internship. Positions are non-paid.

105 Contact Hours (15 lecture hours, 90 lab hours). Prerequisite: Completion of all Medical Administrative Assistant coursework including PSY 101 or PSY 235, BIO 106, CIS 118, ENG 121, HPR 106, HPR 137, HPR 178, MOT 110, MOT 120, MOT 130, MOT 132, and MOT 136 all with a grade of "C" or better in each course.

MOT 182 CLINICAL INTERNSHIP (3)

Provides supervised placement in a contracted facility for guided experience in the applications of knowledge and skills acquired in the classroom. Student must have permission by the program coordinator to begin internship. Positions are non-paid.

105 Contact Hours (15 lecture hours, 90 lab hours). Prerequisites: Completion of Clinical Office Assistant coursework including PSY 101 or PSY 235, BIO 106, HPR 106, HPR 137, HPR 178, MOT 136, MOT 138, MOT 140, and MOT 150, all with a grade of "C" or better in each course and current CPR and First Aid certificates.

MOT 183 MEDICAL ASSISTANT INTERNSHIP (5)

Provides supervised placement in a contracted facility for guided experience in the application of knowledge and skill acquired in the classroom. The student assists with a variety of business and clinical procedures. Positions are non-paid due to CAAHEP requirement. Student must have permission by the program coordinator to begin internship. Positions are non-paid.

195 Contact Hours (15 lecture hours, 180 lab hours). Prerequisites: Completion of Medical Assistant coursework including BIO 106, ENG 121, PSY 101, HPR 106, HPR 137, HPR 178, MOT 110, MOT 120, MOT 130, MOT 136, MOT 138, MOT 140, and MOT 150, all with a grade of "C" or better in each course and current CPR and First Aid certificates.

MOT 184 BILLING SPECIALIST INTERNSHIP (4)

Provides supervised placement in a contracted facility for guided experience and application of knowledge and skill acquired in the classroom. The student assists with a variety of business and billing procedures. Student must have permission by the program coordinator to begin internship. Positions are non-paid.

150 Contact Hours (15 lecture hours, 135 lab hours). Prerequisite: Completion of all Billing Specialist course work including ACC 101, BIO 106, CIS 118, ENG 121, HPR 106, HPR 137, HPR 178, MOT 120, and MOT 130, all with a grade of "C" or better.

MST - Massage Therapy

MST 110 ETHICS FOR MASSAGE THERAPY (1)

Focuses on the ethical issues associated with the practice of massage therapy. Emphasis will be on the NCBTMB Code of Ethics, confidentiality of client information, and effective and appropriate interpersonal communication with clients and peers.

15 Contact Hours. Prerequisite: ENG 090, REA 090

MST 111 BASIC MASSAGE THERAPIES (4)

Introduces theory and techniques of therapeutic massage, including understanding of physiological benefits of massage as well as proper body mechanics and appropriate draping. Focuses on basic strokes of Swedish massage. Students also learn techniques of seated massage.

60 Contact Hours. Prerequisite: BIO 106, HPR 178

MST 113 PROFESSIONAL MESSAGES (3)

Continues the study of Integrative Therapeutic Massage techniques with emphasis on assessing and meeting client's needs. Students give massage in supervised in-class clinicals, applying appropriate therapeutic intervention.

90 Contact Hours. Prerequisite: MST 111

MST 178 SEMINAR (3)

Provides students with an experiential learning opportunity.

67.5 Contact Hours. Prerequisite: MST 113

MST 184 CLINICAL MASSAGE I (2)

Applies skills in a clinical setting. Focuses on improvement of massage therapy skills, ethics, and communication.

60 Contact Hours. Prerequisite: MST 113

MST 216 PATHOLOGY FOR MASSAGE THERAPY (3)

Focuses on basic knowledge of disease and injury to assist the massage therapist to promote healing, ease pain and discomfort, and avoid complications during therapy. With a broad perspective of pathology and specific pathophysiology of diseases contributing to the need for massage therapy, this course provides the foundational science for safe practice. Applies skills in a clinical setting.

45 Contact Hours. Prerequisite: MST 111, HPR 117

MST 284 CLINICAL MASSAGE II (2)

Provides an application of massage therapy skills in a clinical setting. This course focuses on improvement of techniques, communication with clients and other health professionals as well as documentation of massage sessions.

60 Contact Hours. Prerequisite: MST 184

MTE - Manufacturing Technology

MTE 101 INTRODUCTION TO MANUFACTURING (3)

Gives students a broad understanding of manufacturing and the role of the manufacturing technician. Students learn how manufacturing is important to Colorado and the U.S. Topics covered include manufacturing concepts, principles and processes, cost elements, tools and techniques, safety, current trends and manufacturing in the future.

45 Contact Hours.

MTE 105 SAFETY FOR MANUFACTURING ENVIRONMENTS (1)

Introduces federal and state regulations, industrial practices, and accident investigation techniques. Covers hazard communication standard, lockout/tagout procedures, eye safety, lifting techniques, electrical safety, stored energy safety, personal protective equipment, safety program development and monitoring, and accident investigation techniques. Serves as the prerequisite for all Advanced Technology Center programs.

15 Contact Hours.

MTE 106 PRINT READING FOR MANUFACTURING (3)

Instructs students in reading and understanding industrial prints. This course covers basic drafting and print standards, fundamentals of shape description, fundamentals of size description and annotation, industrial drawing types, and specialized parts and prints. Symbol interpretation, tolerancing and dimensioning standards are also covered.

45 Contact Hours.

MTE 110 MANUFACTURING COMMUNICATION AND TEAMWORK (3)

Explores the advantages and disadvantages of using teams as a valid method to promote communication, critical thinking, and problem solving in business and industry. This course is designed to train individuals in the skills necessary to be a contributing member of an industry or business team. Topics covered are emotional intelligence, team dynamics, conflict resolution, multi-rater assessment and personal leadership skills.

45 Contact Hours.

MTE 125 STATISTICAL PROCESS CONTROL (3)

Expose students to the classical concepts of quality control in a style and depth that should be acquired by all employees of the process industry. Discuss and use quality management philosophies and Statistical Process Control tools and charts. Demonstrate and use employee involvement processes.

45 Contact Hours. Prerequisite: MAT 108

MTE 130 METROLOGY (3)

Exposes the student to the principles of dimensional metrology. Students will learn how to use common measuring instruments relating to state-of-the-art manufacturing environments. Students will also learn the importance of Quality Control, TQM and SPC processes as they relate to manufacturing environments. Use of a coordinate measuring machine will be delivered.

45 Contact Hours.

MTE 238 INDUSTRIAL FLUID POWER & CONTROLS (3)

Introduces fluid power application in industry and various types of industrial control devices used in modern manufacturing equipment and machinery. Enables the student to produce the graphics required to incorporate these items into a mechanical design.

67.5 Contact Hours.

MTE 244 LEAN MANUFACTURING PRACTICES AND PROCESSES (3)

Provides a study of Lean Manufacturing. The students study and develop in the lab the following lean concepts/methods: lean philosophy, fundamental wastes, defining value, five S, value stream identification, process rationalization,

continuous process improvement, inventory management optimization model, value stream mapping, creating process flows, cellular manufacturing, pull vs. push systems, just-in-time, kanban systems, standardized work, jidoka, fail-safing, quick change/set-up reduction methods, SCM cycle time reduction, and VRM.

45 Contact Hours. Prerequisites: MTE 110.

See the list of Specialized Manufacturing Technology Courses on the first page of this Course Offerings section.

MTE 280 INTERNSHIP: MANUFACTURING (2)

Provides students with the opportunity to supplement coursework with practical work experience related to their educational program. Students work under the immediate supervision of experienced personnel at the business location and with the direct guidance of the instructor.

90 Contact Hours.

MTE 289 MANUFACTURING CAPSTONE (1-12)

Provides a demonstrated culmination of learning within a given program of study.

15-180 Contact Hours.

MUS - Music

MUS 100 INTRODUCTION TO MUSIC THEORY I (3)

Introduces the basics of music theory. Course designed to help the beginning music student, or those students with limited background in music theory, study the basic elements of music. Topics include notation, rhythm, scales, key signatures, intervals, chords, beginning level melodic and rhythm dictation, ear-training and sight singing skills.

45 Contact Hours.

MUS 101 INTRODUCTION TO MUSIC THEORY II (3)

Continues the introduction of basics of music theory and builds upon skills developed in MUS 100. Course designed to help the beginning music student, or those students with limited background in music theory, study the basic elements of music, including notation, rhythm, scales, key signatures, intervals, and chords. Course continues to develop beginning level melodic and rhythm dictation, ear-training and sight singing skills.

45 Contact Hours. Recommended Preparation: MUS 100.

MUS 106 SONGWRITING (3)

Examines the various processes and styles of songwriting and offers techniques and ideas for creating songs ranging from functional to original. Students will explore the common factors in all styles of songwriting, and use them to bring out creative song ideas whether they have written songs before or have just always wanted to see if they could. A basic knowledge of music reading for any instrument and elementary music theory is recommended, but not required.

45 Contact Hours. Recommended Preparation: MUS 100.

MUS 110 MUSIC THEORY I (3)

Presents music fundamentals, diatonic four-part harmony, analysis, ear training, and keyboard harmony.

45 Contact Hours. Recommended Preparation: MUS 100. Corequisite: MUS 112.

MUS 111 MUSIC THEORY II (3)

Presents chromatic four-part harmony, analysis, ear training, and keyboard harmony.

45 Contact Hours. Recommended Preparation: MUS 110 and MUS 112.

Corequisite: MUS 113.

MUS 112 EAR TRAINING/SIGHT-SINGING I LAB (1)

Presents exercises in sight-singing with melodic and rhythmic dictation.

15 Contact Hours. Recommended Preparation: MUS 100 Corequisite: MUS 110.

MUS 113 EAR TRAINING/SIGHT-SINGING II LAB (1)

Presents exercises in sight-singing with melodic and rhythmic dictation.

15 Contact Hours. Recommended Preparation: MUS 112 or equivalent. Corequisite: MUS 111.

MUS 120 MUSIC APPRECIATION (3)

***(GT-AH1)**

Covers the basic materials of music, musical forms, media, genres and musical periods. Emphasizes the development of tools for intelligent listening and appreciation.

45 Contact Hours.

MUS 121 MUSIC HISTORY MEDIEVAL TO CLASSICAL (3)

***(GT-AH1)**

Studies the various periods of music history with regard to the composers, aesthetics, forms, and genres of each period. Considers music from the Middle Ages through the Classical period.

45 Contact Hours.

MUS 122 MUSIC HISTORY ROMANTIC TO PRESENT (3)

***(GT-AH1)**

Studies the various periods of music history with regard to the composers, aesthetics, forms, and genres of each period. Considers music from the early Romantic period to the present.

45 Contact Hours.

MUS 123 SURVEY OF WORLD MUSIC (3)

***(GT-AH1)**

Provides an overview of non-Western music from around the world; provides basic listening skills and the historical/cultural context for a variety of world music styles to enable an understanding and appreciation of non-Western musical expression.

45 Contact Hours.

MUS 125 HISTORY OF JAZZ MUSIC (3)

***(GT-AH1)**

Provides a survey of basic materials of music and the forms, media, genres, historical, and cultural style periods of jazz. It emphasizes the development of tools for intelligent listening and appreciation.

45 Contact Hours.

MUS 126 HISTORY OF ROCK AND POP (3)

Provides a survey of basic materials of music, musical forms, media, genres, and musical periods of Rock and Pop music. It emphasizes the development of tools for intelligent listening and appreciation.

45 Contact Hours.

MUS 131 MUSIC CLASS I (GUITAR, PIANO OR VOICE) (2)

Applies the fundamentals of music to the voice or specific musical instruments. This course also introduces basic techniques, repertoire, and sight-reading.

30 Contact Hours.

MUS 132 MUSIC CLASS II (GUITAR, PIANO OR VOICE) (2)

Applies the fundamentals of music to the voice or specific musical instruments. The course also introduces basic techniques, repertoire, and sight-reading.

30 Contact Hours. Prerequisite: MUS 131

MUS 141 PRIVATE INSTRUCTION I (1-2)

Offers private instruction consisting of a 30- or 60-minute lesson per week. Participation in a one student performance is required at least once each term.

8-15 Contact Hours.

MUS 142 PRIVATE INSTRUCTION II (1-2)

Offers private instruction consisting of a 30- or 60-minute lesson per week. Participation in a student performance is required at least once each term.

8-15 Contact Hours. Prerequisite: MUS 141

MUS 151 ENSEMBLE I (ORCHESTRA, CHAMBER MUSIC, CHAMBER CHOIR, VOCAL JAZZ, JAZZ COMBO) (1)

Rehearses and performs various types of musical literature.

37.5 Contact Hours.

MUS 152 ENSEMBLE II (ORCHESTRA, CHAMBER MUSIC, CHAMBER CHOIR, VOCAL JAZZ, JAZZ COMBO) (1)

Rehearses and performs various types of musical literature.

37.5 Contact Hours. Prerequisite: MUS 151

MUS 161 COMPUTER MUSIC APPLICATIONS I (3)

Introduces students to the Digital Audio Workstation, current practices in Musical Instrument Digital Interface (MIDI) instruments, MIDI sequencing, MIDI editing, and music notation programs.

45 Contact Hours.

MUS 162 COMPUTER MUSIC APPLICATIONS II (3)

Designed to build on MUS 161. Course will further explore the Digital Audio Work (DAW) environment. Advanced music notation software techniques, creating unique synthesizer timbres, and audio/video synchronization will be among the topics explored.

45 Contact Hours. Recommended Preparation: MUS 161.

MUS 163 MUSIC AUDIO PRODUCTION I (3)

Designed to give students with a strong interest in music a basic understanding of the Music Production process. This includes the basic knowledge of audio/music production, the fundamentals of sound and microphones, digital and analog technology, recording, and mixing.

45 Contact Hours.

MUS 164 MUSIC AUDIO PRODUCTION II (3)

Designed to build on the concepts of MUS 163. This class will be more project oriented with emphasis on using the techniques discussed in MUS 163. An emphasis on critical listening through each phase of the recording process will be made.

45 Contact Hours. Recommended Preparation: MUS 163.

MUS 167 MUSIC BUSINESS I (3)

Designed to give music students, or those students with strong interest in business and music, a complete overview and in-depth examination of the current, historic and projected business practices in the music industry.

30 Contact Hours.

MUS 210 MUSIC THEORY III (3)

Continues study of four-part music, including extended harmonic progressions of 9th, 11th, 13th chords, extended alteration, non-chord tones, modulation and compositions.

45 Contact Hours. Recommended Preparation: MUS 111 and MUS 113.

Corequisite: MUS 212.

MUS 211 MUSIC THEORY IV (3)

Offers a continuation of chromatic harmony, analysis, ear-training, and keyboard harmony. New topics will include Impressionism and 20th Century styles of composition.

45 Contact Hours. Recommended Preparation: MUS 210 and MUS 212.

Corequisite: MUS 213.

MUS 212 ADVANCED EAR TRAINING/SIGHT-SINGING I LAB (1)

Presents modulating and chromatic exercises in sight-singing and dictation. Dictation includes four-part writing.

15 Contact Hours. Recommended Preparation: MUS 111 and MUS 113.

Corequisite: MUS 210.

MUS 213 ADVANCED EAR TRAINING/SIGHT-SINGING II LAB (1)

Presents modulating and chromatic exercises in sight-singing and dictation. Dictation includes four-part writing.

15 Contact Hours. Recommended Preparation: MUS 210 and MUS 212.

Corequisite: MUS 211.

MUS 241 PRIVATE INSTRUCTION I (1-2)

Offers private instruction consisting of a 30- or 60-minute lesson per week. Participation in a student performance is required at least once each term.

8-15 Contact Hours. Prerequisite: Permission of instructor.

MUS 242 PRIVATE INSTRUCTION II (1-2)

Offers private instruction consisting of a 30- or 60-minute lesson per week. Participation in a student performance is required at least once each term.

8-15 Contact Hours. Prerequisite: Permission of instructor.

MUS 261 ADVANCED MUSIC AUDIO PRODUCTION (3)

Designed to build upon MUS 163 and MUS 164 to give a well-structured and advanced knowledge of the various aspects of recording and production with music in a live and studio setting. This includes a working knowledge of microphones, audio mixing boards-analog and digital, recorders, analog and digital, mixing, sound, equalization and the fundamentals of acoustics in studio design.

45 Contact Hours. Recommended Preparation: MUS 161.

NRE - Natural Resources**NRE 100 FOUNDATIONS OF FORESTRY (3)**

Presents the principles of forest science, dendrology, forest fire behavior, and silviculture principles.

53 Contact Hours.

NRE 110 FORESTRY FIELD RESEARCH (3)

Introduces research techniques to manage land for a variety of objectives. These include the improvement of wildlife habitat and forest diversity, the prevention of wildfire and insect and disease epidemics, and the scheduling of a sustainable wood supply.

60 Contact Hours.

NRE 121 INTRODUCTION TO HYDROLOGY (3)

Introduces the movement of ground and surface water. Basic flow equations and graphs are used.

53 Contact Hours. Recommended Preparation: MAT 090

NRE 200 ECOLOGY: FIELD STUDY (3)

Studies the importance of forests in local, regional and global environments. Students travel to different types of ecosystems, study the biotic organisms, complex interactions and ways to protect these valuable habitats.

90 Contact Hours.

NRE 205 WILDLIFE AND FISHERIES MANAGEMENT PRINCIPLES (3)

Covers theory, philosophy, and applications for study and management of wildlife and fisheries resources. field and laboratory methods used in wildlife management also covered.

53 Contact Hours.

NRE 215 FIRE ECOLOGY (3)

Allows students to study the ecological effects of fire. Current information and field experience will be emphasized.

53 Contact Hours.

NRE 225 ENVIRONMENTAL EDUCATION (3)

Introduces students to the history, legislation, principles, and goals of environmental literacy and education. Students will apply this understanding by creating, presenting and evaluating an environmental lesson and environmental education project.

45 Contact Hours.

NRE 230 WILDLIFE LAW ENFORCEMENT (3)

Provides an overview of the Wildlife Laws and regulations in the United States. Students examine the many methods of wildlife management, law enforcement, and forensics in this field.

45 Contact Hours.

NRE 245 AVIAN CONSERVATION/ORNITHOLOGY (3)

Offers the study of ornithology and the conservation practices associated with management of wild bird populations and their habitats. Current information and field experience will be emphasized.

53 Contact Hours.

NRE 265 WILDERNESS EDUCATION (3)

Introduces students to management and awareness of unique areas. Native American studies and survival in back country are included in this course. Students will participate in a service project and a wilderness overnight as part of this course.

53 Contact Hours.

NRE 278 SEMINAR (1-3)

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

45 Contact Hours

See the list of Specialized Natural Resources Courses on the first page of this Course Offerings section.

NUA - Nurse Aide**NUA 101 CERTIFIED NURSE AIDE HEALTH CARE SKILLS (4)**

Prepares the student to perform the fundamental skills of the nurse aide. Basic nursing skills, restorative services, personal care skills; safety and emergency care issues are covered in theory and lab. The student will learn skills that address the mental health needs as well as patient/resident/client rights.

66 Contact Hours. Prerequisite ENG 090 and REA 090 Corequisite: NUA 170

NUA 170 NURSE AIDE CLINICAL EXPERIENCE (1)

Applies knowledge gained from NUA 101 in a clinical setting.

24 Contact Hours. Prerequisite: Immunizations to meet current Occupational Safety and Health Administration (OSHA) guidelines; Contact individual campus for required information. Corequisite: NUA 101. A passing background check is also required.

NUR - Nursing**NUR 101 PHARMACOLOGY CALCULATIONS (1)**

Introduces the nursing student to the concepts and techniques of dosage calculations and medication administration by a variety of routes. Learners will apply basic math concepts to complex conversion of dosages between and among various systems of weights and volumes. Learners will apply critical thinking skills to the calculation and administration of medications.

15 Contact Hours (15 lecture hours).

NUR 102 ALTERATIONS IN ADULT HEALTH I (4)

Introduces the Practical Nurse to basic concepts necessary for assessing and meeting nursing care needs of the adult and older individual. The course focuses on the concepts of acute and chronic illness, pain management, fluid and electrolyte balance, perioperative care, oncology, death and dying, infection and inflammation, and shock syndromes. Common disorders of the musculoskeletal, integumentary, respiratory and reproductive systems are presented. Relevant psychosocial and ethno cultural concepts and legal and ethical implications are integrated throughout.

60 contact hours (60 lecture hours). Prerequisites: Completion of preceding nursing coursework with a grade of "C" or better.

NUR 103 HEALTH ASSESSMENT FOR THE PRACTICAL NURSE (1)

Provides a foundation in assessment and related therapeutic communication and teaching skills within the legal role of the Practical Nurse (PN). Information is presented to assist the learner in obtaining a health history and in performing a basic assessment on adults and older adults with predictable outcomes. Health maintenance and health promotion concepts are incorporated throughout the course. Relevant mental health, psychosocial and ethno cultural concepts are integrated. Learning theory regarding teaching and learning concepts are presented.

15 contact hours (15 lecture hours). Prerequisites: Completion of preceding nursing course work with a grade of "C" or better.

NUR 104 ALTERATIONS IN ADULT HEALTH II (5)

Continues the concepts introduced in Alterations in Adult Health I. It introduces the learner to basic concepts necessary for assessing and meeting nursing care needs of the adult and older individual. The course focuses on the common disorders of the neurological, cardiovascular, blood, lymphatic, immune, endocrine, gastrointestinal, renal and urinary systems and the special senses. Relevant psychosocial and ethno cultural concepts are integrated throughout.

75 contact hours (75 lecture hours). Prerequisites: Completion of preceding nursing course work with a grade of "C" or better.

NUR 105 PRACTICAL NURSE ARTS AND SKILLS (6.5)

Introduces the Practical Nursing learner to the principles of basic procedures necessary in caring for clients across the lifespan with stable and predictable outcomes in selected health care settings. Emphasis is placed on use of the nursing process in providing care. Opportunities are provided in the classroom and laboratory to develop competence in the performance of nursing skills. Relevant psychosocial and ethno cultural concepts are integrated throughout. Content regarding multidisciplinary relationships, historical perspectives, and health care delivery systems is presented. (1 or more credits may be given for students completing a Community College of Colorado approved Certified Nursing Assistant program.)

120 contact hours (75 lecture hours, 45 lab hours) Prerequisites: Completion of preceding nursing coursework with a grade of "C" or better.

NUR 106 MEDICAL SURGICAL NURSING CONCEPTS (9)

NUR 106 is the first medical/surgical nursing course. Building on NUR 109, this course provides for the acquisition of basic medical/surgical nursing theory, as well as application of mental health concepts, communication, collaboration, caring, and critical thinking/clinical reasoning necessary for safe, patient-centered care to a developmentally and culturally diverse adult patient population experiencing various medical/surgical interventions. Incorporates evidence-based practice, quality improvement, professional standards, and legal and ethical responsibilities of the nurse. Application of knowledge and skills occurs in the nursing skills laboratory and a variety of clinical settings.

217.5 Contact Hours.(52.5 lecture hours, 15 lab hours and 150 clinical hours). Prerequisites: NUR 109, NUR 112, MAT 103, and HPR 108 or HWE 100

NUR 109 FUNDAMENTALS OF NURSING (8)

Nursing 109 introduces the fundamental concepts necessary for safe, patient-centered nursing care to a diverse patient population while integrating legal and ethical responsibilities of the nurse. Introduces caring, critical thinking, the nursing process, quality improvement, and communication used when interacting with patients and members of the interdisciplinary team, and relates evidence-based nursing practice. Application of knowledge and skills occurs in the nursing skills laboratory and a variety of clinical settings providing care to stable patients with common health alternations.

210 Contact Hours. (30 lecture hours, 90 lab hours and 90 clinical hours).

NUR 110 PHARMACOLOGY PRACTICAL NURSING (3)

Focuses on the classifications of drugs as they relate to body systems as an introductory pharmacology course. Emphasis is

placed on current drug therapy and specific prototype drugs. The discussion of each drug classification concentrates on the mechanism of action, main therapeutic effects, and the adverse reactions produced by the drug. Nursing considerations and patient teaching aspects for each drug classification are stressed throughout. Students learn how to use drug reference sources in gathering data for delivering effective and safe nursing care.

45 contact hours(45 lecture hours). Prerequisites: Completion of preceding nursing course work with a grade of "C" or better.

NUR 111 SOCIALIZATION INTO PRACTICAL NURSING(1)

Introduces roles and responsibilities of the graduate Practical Nurse as defined by established standards, including the Colorado Nurse Practice Act. Emphasis is placed on accountability, delegation, and perspectives in health care. Career and job readiness skills are developed.

15 contact hours (15 lecture hours). Prerequisites: Completion of preceding nursing course work with a grade of "C" or better.

NUR 112 BASIC CONCEPTS OF PHARMACOLOGY (2)

Overview of the basic principles of pharmacology including major drug classifications and prototypes of commonly used medications. Principles of medication administration include aspects of best practice for safe, quality, patient-centered care. Central points include safety, quality improvement factors in the administration of medications, patient teaching, and variations encountered when administering medications to diverse patient populations across the lifespan.

30 Contact Hours (30 lecture hours).

NUR 113 BASIC CONCEPTS OF OBSTETRIC NURSING (2)

Introduces the study of families experiencing childbirth. The focus is on normal pregnancy and the physiological and psychological changes during this time including the care of the normal newborn. Selected common complications are discussed. Relevant psychosocial and ethno cultural concepts are integrated throughout. The nursing process is used as a framework to assist the learner in understanding basic maternal/newborn needs and nursing care within the role of the Practical Nurse.

30 contact hours (30 lecture hours). Prerequisites: Completion of preceding nursing course work with a grade of "C" or better.

NUR 114 BASIC CONCEPTS OF PEDIATRIC NURSING (2)

Provides the learner with a basic understanding of the care of both the well and sick child within the role of the Practical Nurse. Emphasis is placed on the normal growth and development from infancy to adolescence. Nursing care of common childhood conditions is discussed. Theory is related to the nursing care of the well child, the sick child in various settings, the child with special needs, and the impact of pediatric care on the family. Relevant psychosocial, ethno cultural and family concepts are integrated throughout.

30 contact hours (30 lecture hours). Prerequisites: Completion of preceding nursing course work with a grade of "C" or better.

NUR 115 BASIC CONCEPTS OF MENTAL HEALTH (1)

Introduces the learner to basic concepts of mental health and illness. The course focuses on clients throughout the lifespan. Emphasis is placed on mental health concepts, selected common psychiatric disorders, treatment modalities and related nursing care. This course is designed to assist the Practical Nurse in caring for clients with varied psychosocial and ethno cultural backgrounds.

15 contact hours (15 lecture hours). Prerequisites: Completion of preceding nursing course work with a grade of "C" or better.

NUR 116 BASIC CONCEPTS OF GERIATRIC NURSING (1)

Introduces the learner to basic knowledge of normal aging, disorders related to aging and nursing care of the older individual within the role of the Practical Nurse. Concepts regarding legal and ethical factors affecting the older individual are presented. Relevant psychosocial and ethno cultural concepts are integrated throughout.

15 contact hours (15 lecture hours). Prerequisites: Completion of preceding nursing course work with a grade of "C" or better.

NUR 131 CLINICAL I APPLICATION OF ARTS AND SKILLS (4.5)

Introduces the learner to the health care environment as a foundation course. Enables the learner to begin to apply the nursing process in assessing and meeting the needs of the client within the role of the Practical Nurse. Emphasis is placed on the application of communication skills, basic and advancing nursing procedures, assessment and documentation of care in selected health care settings.

135 contact hours (135 clinical hours). Prerequisites: Completion of preceding nursing course work with a grade of "C" or better.

NUR 132 CLINICAL II APPL OF ADULT HEALTH (3)

Enables the student to develop skills in applying the nursing process in delivery of increasingly complex nursing care. The course is intended to prepare the learner for the entry role of the Practical Nurse in assessing and meeting the needs of adults and older individuals in selected health care settings.

90 contact hours (90 clinical hours). Prerequisites: Completion of preceding nursing course work with a grade of "C" or better.

NUR 133 CLINICAL III APPLIED MATERNAL CHILD (1.5)

Introduces the learner to the childbearing, newborn, and pediatric client as a foundation course. Provides an opportunity for the learner to apply the principles learned in Basic Concepts of Maternal-Newborn Nursing and in Basic Concepts of Nursing of Children.

45 contact hours (45 clinical hours). Prerequisites: Completion of preceding nursing course work with a grade of "C" or better.

NUR 134 CLINICAL IV ADVANCED APPLIED ADULT HEALTH (4.5)

Provides the learner with the opportunity to enhance the application and integration of nursing theory with multiple clients. The focus is on the scope of practice for the Practical Nurse and the transition from the role of learner to graduate Practical Nurse. Emphasis is on the physical, psychosocial, spiritual, and ethno cultural needs of multiple clients in selected care settings.

135 contact hours (135 clinical hours). Prerequisites: Completion of preceding nursing course work with a grade of "C" or better.

NUR 150 MATERNAL CHILD NURSING (7)

Nursing 150 provides for the acquisition of maternal/child nursing theory, as well as application of mental health concepts, communication, collaboration, caring, and critical thinking/clinical reasoning necessary for safe, family-centered nursing care to childbearing families and children that is developmentally and culturally appropriate. Incorporates evidence-based practice, standards of practice, quality improvement, and legal and ethical responsibilities of the nurse. Application of knowledge and skills occurs in the

nursing skills laboratory and in a variety of maternal/child and pediatric clinical settings.

165 Contact Hours. (45 lecture hours, 30 lab hours and 90 clinical hours).

Prerequisites: NUR 109, NUR 112, MAT 103, and HPR 108 or HWE 100

NUR 169 TRANSITION INTO PRACTICAL NURSING (5)

Provides the student with a transition into the role of the practical nurse. Emphasis will be placed on clinical practice, communication, nursing process, ethical/legal issues and leadership skills. The student will practice the role of the practical nurse in the required clinical experience.

120 contact hours (30 lecture hours, 90 clinical hours). Prerequisites:

Completion of preceding nursing course work with a grade of "C" or better.

NUR 185 INDEPENDENT STUDY (0.5-6)

Meets the individual needs of students. Students engage in intensive study or research under the direction of a qualified instructor.

30 Contact Hours per credit. Prerequisites: Completion of preceding nursing course work with a grade of "C" or better.

NUR 189 TRANSITION FROM LICENSED PRACTICAL NURSE TO ASSOCIATE DEGREE NURSING STUDENT (4)

Focuses on assisting the Licensed Practical Nurse (LPN) to transition into a new role as an Associate Degree Nursing Student (ADN). Emphasis will be placed on roles and responsibilities of the ADN, nursing process, critical thinking, legal and ethical issues and nursing practice issues related to specialized skills and the care of special populations. The clinical focus will be care of pediatric and obstetric clients.

90 contact hours (30 lecture hours, 30 lab hours, 30 clinical hours).

Prerequisites: Completion of preceding nursing course work with a grade of "C" or better.

NUR 201 INTRAVENOUS THERAPY FOR LICENSED PRACTICAL NURSES (5)

Provides Licensed Practical Nurses (LPNs) with an opportunity to expand their nursing roles by learning appropriate procedures for intravenous (IV) therapy and venous blood withdrawal. The course includes lecture, laboratory practice and clinical experiences. The course prepares the student for IV certification under State Board of Nursing Guidelines.

90 Contact Hours (50 lecture hours, 17 lab hours, 23 clinical hours).

NUR 206 ADVANCED CONCEPTS OF M/S NURSING I (8)

NUR 206 builds on NUR 106 focusing on advanced concepts of nursing applied to care of patients with high acuity medical/surgical conditions. Builds on medical/surgical nursing theory, mental health concepts, communication, collaboration, caring, and critical thinking/clinical reasoning necessary for safe, patient-centered nursing care to developmentally and culturally diverse adult patients.

Incorporates evidence-based practice, quality improvement, professional standards, and legal and ethical responsibilities of the professional nurse as applied in a variety of healthcare settings. Application of knowledge and skills occurs in the nursing skills laboratory and in a variety of clinical settings.

195 Contact Hours (45 lecture hours, 15 lab hours, 135 clinical hours).

Prerequisites: Completion of preceding nursing coursework with a grade of C or above, including BIO 216

NUR 211 PSYCHIATRIC-MENTAL HEALTH NURSING (4)

Develops concepts of psychosocial integrity and emphasizes the function and responsibility of nursing in promoting and maintaining mental health of individuals and families. This course emphasizes communication and caring through the

application of the therapeutic relationship and nursing process in the care and treatment of common psychiatric clinical conditions/disorders.

105 Contact Hours (15 lecture hours, 30 lab hours, 60 clinical hours).

Prerequisites: Completion of preceding nursing coursework with a grade of C or above, including BIO 216

NUR 212 PHARMACOLOGY (2)

Builds on previously introduced pharmacological concepts and applies that learning to pharmacologic therapy to provide safe, quality, evidence-based nursing care to patients with complex healthcare needs. Focuses on safety and quality improvement factors in the administration of medications within a variety of healthcare systems. Advanced dosage calculations included.

30 Contact Hours. Prerequisites: Completion of preceding nursing coursework with a grade of C or above, including BIO 216

NUR 216 ADVANCED CONCEPTS OF M/S NURSING II (6)

Nursing 216 is a continuation of Nursing 206, focusing on complex medical/surgical conditions of the high acuity patient. Builds on medical/surgical nursing theory, mental health concepts, communication, collaboration, caring, and critical thinking/clinical reasoning necessary for safe, patient-centered nursing care to developmentally and culturally diverse adult patients experiencing high acuity medical/surgical conditions. Incorporates evidence-based practice, quality improvement, professional standards, and legal and ethical responsibilities of the professional nurse as applied in the acute care and high acuity settings. Application of knowledge and skills occurs in a variety of clinical settings.

150 Contact Hours (30 lecture hours, 120 clinical hours). Prerequisites: Completion of preceding nursing coursework with a grade of C or above.

NUR 230 TRANSITION TO PROFESSIONAL NURSING PRACTICE (5)

Nursing 230 is a seminar and practice capstone course that provides an integrative experience applying all dimensions of the professional nurse in the care of diverse patient populations across a variety of healthcare settings. All major concepts of the nursing program are addressed. Leadership and the management of multiple patients are emphasized. Application of knowledge and skills occurs in the clinical setting to facilitate an effective transition from student to registered professional nurse.

127.5 Contact Hours. (22.5 lecture hours, 105 clinical hours). Prerequisites: Completion of preceding nursing coursework with a grade of C or above.

OSH - Occupational Safety Technician

OSH 127 10-HUMAN RESOURCES CONSTRUCTION INDUSTRY STANDARDS (1)

Provides a 10-Hour Occupational Safety and Health Administration (OSHA) certification course for the construction industry and participants will review the current OSHA standards contained in 29 Code of Federal Regulations (CFR) 1926. Participants that complete the course will receive a certificate of completion from the United States Department of Labor, Occupational Safety and Health Administration. The course is taught by instructors certified by the Occupational Safety and Health Administration.

22.5 Contact Hours.

OUT - Outdoor Studies

OUT 126 MOUNTAIN BIKING (1)

Introduces basic mountain biking skills and techniques. The primary emphasis is to gain an understanding of the basic principles of mountain biking. Students develop skills and techniques for all riding situations, review bicycle anatomy and basic maintenance and repairs.

30 Contact Hours.

OUT 131 ROCK CLIMBING I (2)

Introduces basic rock climbing, improving dexterity, problem solving skills and the physical work capacity of an individual. Enables the student to gain an understanding of the general principles of climbing; how equipment works and how it is used; basic climbing skills and techniques; safety and climbing etiquette and terminology.

45 Contact Hours.

OUT 132 ROCK CLIMBING II (2)

Introduces lead climbing skills and techniques, problem solving skills and physical fitness. Emphasizes the general principles of lead climbing; proper usage of climbing equipment; development of lead climbing skills and techniques; climbing ethics and safety; and terminology.

45 Contact Hours. Recommended Preparation: OUT 131 or permission of instructor.

OUT 142 HIKING (1)

Provides skills related to hiking and wilderness travel. Emphasizes hiking skills, proper conditioning, route finding, equipment, and hiking hazards and ethics. The course involves conditioning in the fitness center and weekend hikes.

30 Contact Hours.

OUT 143 BACKPACKING (2)

Provides skills related to wilderness travel and outdoor adventure. Emphasizes knowledge of backpacking skills, survival techniques, proper physical conditioning, route finding, equipment selection, and an understanding and respect for the environment. The course incorporates lecture and discussion sessions followed by a weekend trip in the mountains.

45 Contact Hours.

OUT 151 SNOWSHOEING (1)

Emphasizes the basic skills, equipment, clothing and techniques of snowshoeing. It includes the objective dangers involved with winter recreation.

30 Contact Hours.

OUT 201 SCUBA DIVING (1)

Provides basic instruction in scuba diving. Focuses on the knowledge and skills related to swimming and snorkeling, diving equipment, communications, the environment, safety, dive tables, and other pertinent information a student needs for safe scuba diving. This course prepares the student for open-water Professional Association of Diving Instructors (PADI) certification.

30 Contact Hours. Recommended Preparation: PED 108 or equivalent.

OUT 202 OPEN WATER DIVER (1)

Requires student divers to demonstrate mastery of performance requirements for four (4) different open water

dives to become a certified open water diver through the Professional Association of Diving Instructors (PADI).

30 Contact Hours. Prerequisite: OUT 201, or equivalent

PAR - Paralegal

PAR 115 INTRODUCTION TO LAW (3)

Provides an understanding of the role of paralegals, issues facing paralegals, the working of the legal system, and ethical questions. Legal terminology and an overview of the substantive areas of law will be discussed.

45 Contact Hours.

PAR 116 TORTS (3)

Focuses on tort law, including negligence, intentional torts, and strict liability with an emphasis on personal injury litigation.

45 Contact Hours.

PAR 117 FAMILY LAW (3)

Emphasizes domestic law, common property, dissolutions, adoptions, legal separation, and other family law issues.

45 Contact Hours.

PAR 118 CONTRACTS (3)

Examines the basic principles of contract law.

45 Contact Hours.

PAR 125 PROPERTY LAW (3)

Focuses on real estate law, ownership, sale, leasing, financing and government regulation of land.

45 Contact Hours.

PAR 126 ADMINISTRATIVE LAW (3)

Introduces administrative and regulatory agencies, their jurisdiction, rule-making and decision-making processes.

45 Contact Hours. Prerequisite: PAR 115.

PAR 127 LEGAL ETHICS (3)

Explores the parameters of professional responsibilities and value systems for paralegals and related occupations.

45 Contact Hours.

PAR 201 CIVIL LITIGATION (3)

Focuses on an intensive study of the legal process including the Federal and Colorado Rules of Civil Procedure.

45 Contact Hours.

PAR 202 EVIDENCE (3)

Introduces the student to State and Federal Rules of Evidence and application to the trial process.

45 Contact Hours. Prerequisite: PAR 115

PAR 205 CRIMINAL LAW (3)

Introduces basic concepts of criminal law and criminal procedure, including Colorado statutes and Rules of Procedure.

45 Contact Hours. Prerequisite: PAR 115

PAR 206 BUSINESS ORGANIZATIONS (3)

Focuses on the study of the major types of business organizations.

45 Contact Hours. Prerequisite: PAR 115

PAR 208 PROBATE AND ESTATES (3)

Provides an understanding of the creation and administration of an estate, including wills and trusts and the probate process.

45 Contact Hours. Prerequisite: PAR 115

PAR 209 CONSTITUTIONAL LAW (3)

Emphasizes the study of the powers of government as they are allocated and defined by the United States Constitution.

45 Contact Hours.

PAR 211 LEGAL RESEARCH (3)

Introduces the student to basic legal research tools, including statutes, digests, case law, citators, encyclopedias, dictionaries, and online data bases.

45 Contact Hours. Prerequisite: PAR 115

PAR 212 LEGAL WRITING (3)

Enables the student to practice the content and conventions of legal writing.

45 Contact Hours. Prerequisite: ENG 121, PAR 115, and PAR 211

PAR 215 ALTERNATIVE DISPUTE RESOLUTION (3)

Introduces the student to negotiating, mediation, arbitration and other forms of dispute resolution.

45 Contact Hours.

PAR 216 EMPLOYMENT LAW (3)

Provides an understanding of current legal issues in the area of employer/employee relationships.

45 Contact Hours. Prerequisite: PAR 115.

PAR 217 ENVIRONMENTAL LAW (3)

Covers state and federal laws concerning the environment, including chemical safety laws, workplace safety, and hazardous waste.

45 Contact Hours.

PAR 218 BANKRUPTCY LAW (3)

Focuses on the federal and state laws and procedures involving bankruptcy.

45 Contact Hours. Prerequisite: PAR 115.

PAR 219 E-DISCOVERY AND LITIGATION TECHNOLOGY (3)

Provides students with an understanding of the discovery process of electronically stored information (ESI) issues and software relating to complex litigation.

45 Contact Hours. Prerequisite: PAR 201

PAR 225 INTERNATIONAL LAW (3)

Focuses on the business, political, and legal implications of relationships between countries.

45 Contact Hours. Prerequisite: PAR 115

PAR 227 IMMIGRATION LAW (3)

Provides an understanding of the United States Immigration Laws.

45 Contact Hours. Prerequisite: PAR 115

PAR 228 INTELLECTUAL PROPERTY (3)

Covers the federal and state laws regarding intellectual property.

45 Contact Hours.

PAR 229 BANKING LAW AND REGULATION (3)

Provides an overview of banking law and regulations.

45 Contact Hours. Prerequisite: PAR 115

PAR 289 CAPSTONE (3)

Emphasizes a synthesis of the information and skills that students learned throughout their paralegal studies.

45 Contact Hours.

PED - Physical Education**PED 101 CONDITIONING LAB (1)**

Offers an independent self-paced format of conditioning exercises to meet individual needs. Emphasizes the value of lifetime fitness and its contribution to achieving personal health and wellness. Students utilize cardio respiratory, muscular strength and endurance exercises to promote positive changes in health-related fitness components.

30 Contact Hours.

PED 102 WEIGHT TRAINING I (1)

Offers basic instruction and practice in weight training. Students utilize weight-training equipment in accordance to their abilities and goals. Emphasizes weight training equipment orientation, correct lifting techniques, and basic program design for men and women.

30 Contact Hours.

PED 103 WEIGHT TRAINING II (2)

Offers guided instruction and independent practice in weight training for men and women. Students practice various weight-training techniques in accordance with their abilities. Emphasizes physiological considerations, equipment orientation, correct lifting techniques, program design, and nutrition.

45 Contact Hours.

PED 104 CROSS TRAINING (1)

Introduces basic cross-training techniques designed to improve physical work capacity of an individual. Enables the student to gain an understanding of the basic principles of cross training, the effects cross training has upon the body's energy systems and muscles, program design and terminology.

30 Contact Hours.

PED 121 STEP AEROBICS (1)

Introduces basic step aerobics and exercise techniques to improve physical fitness. Emphasizes the basic principles of step aerobics including the effects upon the cardio-respiratory system and skeletal muscles, various step patterns and choreography.

30 Contact Hours.

PED 140 BODY SCULPTING AND TONING (1)

Introduces exercise techniques to improve overall physical fitness. Emphasizes the interaction between cardiovascular conditioning, muscular strength and endurance, flexibility and program design integrated into an aerobic format. Focuses on blending together different combinations and sequences of exercises while conditioning the entire body. Students exercise using various types of resistance equipment.

30 Contact Hours.

PED 143 YOGA I (1)

Offers a guided instruction in yoga. Students practice yoga according to their individual fitness levels and abilities. Emphasizes enhancing general health and well being through the performance of yoga strength, flexibility, balance and relaxation techniques and exercises.

30 Contact Hours.

PED 144 YOGA II (1)

Continues to build on the concepts of basic yoga. Increases awareness of yoga including physical and mental benefits.

30 Contact Hours.

PED 151 WALKING AND JOGGING (1)

Enables the student to understand the values in walking and jogging. Safety precautions and emphasis on personal programs are emphasized.

30 Contact Hours.

PED 161 TAI CHI I (1)

Introduces Tai Chi as an expression of understanding of self-control, exercise and self-defense. The primary emphasis is to gain an understanding of the history (origins and changes) of Tai Chi, the movements and their names, application of movements and terminology.

30 Contact Hours.

PED 163 MARTIAL ARTS I (1)

Introduces basic martial arts techniques and forms designed to improve the physical and mental capacity of an individual. Enables the student to gain an understanding of the basic philosophies and concepts around the martial arts and the approach to ethics. Provides a clear-cut guide for developing a powerful sense of character and will.

30 Contact Hours.

PED 202 GOLF I (1)

Introduces a basic course in golf designed for those who have had little or no formal instruction or for those with some experience who are interested in improving some aspect of their game. Includes driving range, putting green, and on-course play.

30 Contact Hours.

PED 230 VOLLEYBALL I (1)

Introduces and improves student skill level in volleyball. The primary emphasis is on teaching the student the elements of volleyball including rules, offensive and defensive play, passing, serving, setting, attacking, team play and game strategies.

30 Contact Hours.

PHI - Philosophy**PHI 111 INTRODUCTION TO PHILOSOPHY (3)**

***(GT-AH3)**

Introduces significant human questions and emphasizes understanding the meaning and methods of philosophy. Includes human condition, knowledge, freedom, history, ethics, the future, and religion.

45 Contact Hours. Prerequisites: College level reading and writing skills equivalent to completing REA 090 and ENG 090 with a grade of "C" or better.

PHI 112 ETHICS (3)***(GT-AH3)**

Examines human life, experience, and thought in order to discover and develop the principles and values for pursuing a more fulfilled existence. Theories designed to justify ethical judgments are applied to a selection of contemporary personal and social issues.

45 Contact Hours. Prerequisites: College level reading and writing skills equivalent to completing REA 090 and ENG 090 with a grade of "C" or better.

PHI 113 LOGIC (3)***(GT-AH3)**

Studies effective thinking using language-oriented logic. Provides tools and develops skills for creative and critical thinking. Emphasizes the development of decision-making and problem solving.

45 Contact Hours. Prerequisites: College level reading and writing skills equivalent to completing REA 090 and ENG 090 with a grade of "C" or better.

PHI 114 COMPARATIVE RELIGIONS (3)***(GT-AH3)**

Introduces students to the major world religions from both the Eastern and Western world such as Hinduism, Buddhism, Confucianism, Taoism, Zoroastrianism, Judaism, Christianity, Islam, Bahá'í, and influential pre-literate traditions. Utilizes religious studies methods (historical, sociological, legal, psychological, and phenomenological), to understand the historical development of each religious tradition in terms of communities, cultural context, and modern manifestations; paying particular attention to differences between sects, denominations, schools, and factions within each tradition. Focus will include the examination of the charismatic leaders, prophets, and narratives that inform the worldview of each tradition.

45 Contact Hours. Prerequisite: College level reading and writing skills equivalent to completing REA 090 and ENG 090 with a grade of "C" or better.

PHI 115 WORLD RELIGIONS - WEST (3)

Introduces students to religions of the Western world: Zoroastrianism, Judaism, Christianity, Islam, Bahá'í, and influential pre-literate traditions. Utilizes religious studies methods (historical, sociological, legal, psychological, and phenomenological), to understand the historical development of each religious tradition in terms of communities, cultural context, and modern manifestations; paying particular attention to differences between sects, denominations, schools, and factions within each tradition. Focus will include the examination of the charismatic leaders, prophets, and narratives that inform the worldview of each tradition.

45 Contact Hours.

PHI 116 WORLD RELIGIONS - EAST (3)

Introduces students to religions of the Eastern world: Hinduism, Buddhism, Jainism, Taoism, Confucianism, Sikhism, Shinto, and influential pre-literate traditions. Utilizes religious studies methods (historical, sociological, legal, psychological, and phenomenological), to understand the historical development of each religious tradition in terms of communities, cultural context, and modern manifestations; paying particular attention to differences between sects, denominations, schools, and factions within each tradition. Focus will include the examination of the charismatic leaders,

prophets, and narratives that inform the worldview of each tradition.

45 Contact Hours.

PHI 120 APPLIED ETHICS (3)

Focuses on different applications of ethics in contemporary society and disciplines, including business ethics, biomedical ethics, genetic ethics, issues of dental ethics, and other valid applications.

45 Contact Hours.

PHI 124 INTRODUCTION TO ISLAM (3)

Introduces the Islamic religious tradition and considers its significance in the modern world. The course investigates the history of Islam, Islamic beliefs and practices, Islamic sects, Sufism, and contemporary issues of Islamic extremism, women in Islam, and Islam in the West.

45 Contact Hours.

PHI 142 NEW TESTAMENT (3)

This course surveys the literature of the early Christian era, from its inception to approximately 150 C.E. The New Testament as well as selected non-canonical writings from the period are examined. The course focuses on the interpretation of these texts in light of the cultural milieu from which they arose. Particular attention is paid to the influence of ancient literary conventions upon the Christian writers of this time.

45 Contact Hours.

PHI 201 SOCIAL AND POLITICAL PHILOSOPHY (3)

Addresses a single topic among those relevant to social and political philosophy such as political rights, political freedom, social obligations, or democracy.

45 Contact Hours.

PHI 203 INTRODUCTION TO BUDDHISM (3)

Introduces students to the history, philosophy and practices of the Buddhist tradition. This course in no way intends to be comprehensive but rather surveys the many manifestations of Buddhism through an exploration of foundational aspects, the evolution and spread of Buddhist philosophical and spiritual ideals, and aspects of Buddhism as it exists in the modern world.

45 Contact Hours.

PHI 205 BUSINESS ETHICS (3)

Analyzes ethical behavior for businesses. The premise is that ethics deals with right and wrong standards of behavior that are determined by the ethical and social expectations of society in general, and further, that we expect responsible people to observe the ethical standards of our society. A case approach is used throughout the course. The ethical issues involve trade-offs among ethical decisions and economics, legal, social, and cultural concepts.

45 Contact Hours.

PHI 213 SYMBOLIC LOGIC (3)

Covers basic information in semantics and syntax of sentential and predicate logic, construction of truth trees and derivations of natural deductive systems.

45 Contact Hours.

PHI 214 PHILOSOPHY OF RELIGION (3)***(GT-AH3)**

Focuses on the critical examination of the fundamental concepts, ideas, and implications of religion. Includes the nature of God, the varieties of religious experience, argument concerning God's existence, the Problem of Evil, faith and reason, religion and human destiny, and the connection between religion and ethics.

45 Contact Hours.

PHI 215 THE MEANING OF LIFE (3)

Examines theistic and non-theistic, subjective and objective approaches to the question: What is the meaning of life? Additionally, the question itself is dissected, as students are challenged to understand what is really being sought and how to begin formulating an answer.

45 Contact Hours.

PHI 218 ENVIRONMENTAL ETHICS (3)***(GT-AH3)**

Critically analyzes theories of value of the natural world. Topics include the relation between scientific and moral principles; theories of the moral worth of persons, animals, plants and other natural objects; historical, religious and cultural influences on conceptions of nature: alternative accounts of human relationships and responsibilities to nature, including deep ecology and eco-feminism; and the connection between moral and political values and economic policies.

45 Contact Hours.

PHI 220 PHILOSOPHY OF DEATH AND DYING (3)***(GT-AH3)**

Explores the major philosophical questions surrounding death and dying: the metaphysical arguments for and against the existence of a soul and life after bodily death, the epistemological assessment of arguments for the soul and life after death, the ethical justifications taken on positions such as rational suicide and physician assisted suicide, as well as a focus on philosophy's existentialist contribution to questions about the meaning of life and the meaning of death.

45 Contact Hours.

PHO - Photography

See ART Subject Area, for Photography-Related Courses

PHT - Pharmacy Technician**PHT 111 ORIENTATION TO PHARMACY (3)**

Orients students to the work of pharmacy technicians and the context in which a technicians' work is performed. Students learn the concept of pharmaceutical care and the technicians' general role in its delivery. The development of new drug products is discussed as well as a variety of issues that touch on attitudes, value and beliefs of success for pharmacy technicians. Students gain an appreciation for the value of obtaining technician certification, and the benefits of technicians' active involvement in local, state, and national pharmacy organizations.

67.5 Contact Hours. Recommended Preparation: College level writing and math skills equivalent to completion of ENG 060 and MAT 060 with grades of "C" or better.

PHT 112 PHARMACY LAW (2)

Introduces the pharmacy technician student to the profound influence that drug laws, standards, and regulations have on practice. Students learn to abide by the laws, regulations and standards that govern the preparation and dispensing of drugs.

30 Contact Hours. Recommended Preparation: College level writing and math skills equivalent to completion of ENG 060 with a grade of "C" or better.

PHT 113 PHARMACY CALCULATIONS (1)

Provides the pharmacy technician student with a math preview necessary for pharmaceutical calculations and reviews necessary pharmaceutical terminology.

15 Contact Hours. Recommended Preparation: College level writing and math skills equivalent to completion of MAT 060 with a grade of "C" or better.

PHT 114 COMPUTER SKILLS FOR PHARMACY TECHNICIANS (1)

Focuses on the practice of pharmacy and the multiple operations contributing to safe and effective practices of dispensing, distribution, administration and prescribing of pharmaceuticals, medical supplies, equipment and devices. Pharmacy technicians are delegated certain operations and technical functions based upon established policies and procedures. Computers are utilized to contribute to the efficient delivery of these operations. Pharmacy technicians require a basic understanding of computer terminology and applications of the computer and the roles and responsibilities of pharmacist and pharmacy technicians in computer-based systems. Includes integration of an actual pharmacy operation application and allow students "hands-on" technical experience.

22.5 Contact Hours.

PHT 115 PHARMACOLOGY I (3)

Provides the basic concepts of normal body function as well as the diseases which impact the various body systems and the drugs used to treat such diseases. Emphasizes disease state management and drug therapy.

45 Contact Hours. Recommended Preparation: College level writing and math skills equivalent to completion of ENG 060 or PHT 113 with a grade of "C" or better.

PHT 116 INSTITUTIONAL PHARMACY (3)

Provides a basic understanding of general and specific tasks as well as the responsibilities involved in the practice of pharmacy in an institutional pharmacy setting. Emphasizes in-patient hospital pharmacy practice and other related practice settings (such as Homecare and Nursing Home or Long-Term Care). A laboratory experiential component provides a "hands-on" experience in the preparation of intravenous admixtures, aseptic technique, unit-dose distribution, dispensing for greater than 24 hours.

67.5 Contact Hours. Prerequisite or corequisite of PHT 113. Recommended Preparation: College level writing equivalent to completion of ENG 090.

PHT 117 COMMUNICATION FOR PHARMACY TECHNICIANS (1)

Provides the pharmacy technician student with an analysis of interpersonal communications (including principles, practices, and procedures) as well as an in-depth discussion of the practical application of communication to pharmacy practice. The analysis of interpersonal communications component includes such topics as communication perceptions and

barriers, listening, responding, assertiveness and non-verbal communication. The practical application component includes such techniques as role-playing, group discussion and interviewing.

15 Contact Hours. Recommended Preparation: College level writing and math skills equivalent to completion of ENG 060 with a grade of "C" or better.

PHT 118 PHARMACOLOGY II (3)

Serves as the second part of the two-part presentation of the basic concepts of normal body function. Reviews the disease states which impact the various body systems and the drugs used to treat such diseases. Emphasizes disease state management and drug therapy.

45 Contact Hours. Prerequisite or corequisite of PHT 115.

PHT 119 COMMUNITY PHARMACY (3)

Provides a basic understanding of both general and specific tasks and responsibilities involved in the practice of pharmacy in a community setting. Emphasizes chain and independent community pharmacy practices and other related practice settings (such as consultant pharmacy, mail order pharmacy and nuclear pharmacy). Enables the student to obtain hands-on experience in the important technical duties of dispensing and compounding. Utilizes a lecture-informal discussion format combined with a series of practice skills laboratory sessions.

67.5 Contact Hours. Prerequisite or corequisite of PHT 113. Recommended Preparation: College level writing equivalent to completion of ENG 090.

PHT 120 MEDICAL INSURANCE PROCEDURES (1)

Provides a basic introduction to pharmacy reimbursement services. Defines and presents the processes involved in reimbursement for pharmacy products and services. Examines the health care insurance industry along with an overview of the three core functions of pharmacy reimbursement services - patient admission, verification of insurance, and billing procedures. Integrates an actual pharmacy operation application and allows students hands-on technical experience.

15 Contact Hours.

PHT 170 PHARMACY CLINICAL: INSTITUTIONAL (4)

Provides students with hands-on experience in an institutional pharmacy setting within the State of Colorado. Students must complete all didactic coursework prior to enrolling for this course. The course involves a minimum of 160 hours including 15 hours of seminar class time and 145 hours of on-the-job work experience. Each student is required to work under the supervision of a licensed pharmacist (i.e. preceptor) who may, in turn, delegate some supervisory and/or training responsibilities to another licensed pharmacist or certified pharmacy technician. During their work time at their clinical site, students are expected to participate in the pharmacy practice activities delineated in the Clinical Site Manual provided each student and each preceptor. Such activities include, but are not limited to, dispensing, compounding, inventory handling and control, drug distribution, and the preparation of intravenous (IV) admixture products, chemotherapy products and total parenteral nutrition (TPN) products. Students are also expected to complete daily and weekly reports of their work activities and are required to evaluate both their work site and their preceptor at the conclusion of their clinical rotation. Similarly, each preceptor is asked to complete an evaluation of, and provide a grade for, each student at the completion of the student's rotation. The

course instructor is also required to assess evaluations for each student from the clinical sites.

160 Contact Hours. Prerequisites: PHT 111, PHT 112, PHT 113, PHT 114, PHT 115, PHT 116, PHT 117, PHT 118, PHT 119, and PHT 120.

PHT 171 PHARMACY CLINICAL: COMMUNITY (4)

Provides students with hands-on experience in a community pharmacy setting within the State of Colorado. Students must complete all didactic coursework prior to enrolling for this course. The course involves a minimum of 160 hours including 15 hours of seminar class time and 145 hours of on-the-job work experience. Each student is required to work under the supervision of a licensed pharmacist (i.e. preceptor) who may, in turn, delegate some supervisory and/or training responsibilities to another licensed pharmacist or certified pharmacy technician. During their work time at their community pharmacy site, students are expected to participate in the pharmacy practice activities delineated in the Clinical Site manual provided each student and each preceptor. Such activities include, but are not limited to, dispensing, compounding, inventory handling and control, drug distribution, processing of third party claims, maintenance of patient profiles and interaction and communication with patients. Students are also expected to complete daily and weekly reports of their work activities and are required to evaluate both their work site and their preceptor at the conclusion of their clinical rotation. Similarly, each preceptor is asked to complete an evaluation of, and provide a grade for, each student at the completion of the student's rotation. The course instructor is also required to assess evaluations for each student from the clinical sites.

160 Contact Hours. Prerequisites: PHT 111, PHT 112, PHT 113, PHT 114, PHT 115, PHT 116, PHT 117, PHT 118, PHT 119, and PHT 120.

PHT 205 CERTIFICATION REVIEW (.5)

Prepares the student for the national Pharmacy Technician Certification Examination.

8 Contact Hours. Prerequisite: Completion of PHT certificate program or prior work experience as a pharmacy technician.

See the list of Specialized Pharmacy Technician Courses on the first page of this Course Offerings section.

PHT 207 DRUG CLASSIFICATION (3)

Emphasizes the drug classes, such as over-the-counter vs. prescription drugs, scheduled drugs, and the laws pertaining to each. Includes the drug development process, the different pregnancy classifications and the degree of potential harm for each class, and the commonly used drugs that can be addictive, abused and potentially lethal. Examines dosage forms, routes of administration, selection and recommendation of Over the Counter drugs and natural products, and memorize trade and generic names.

45 Contact Hours.

PHY - Physics

PHY 105 CONCEPTUAL PHYSICS WITH LAB (4)

***(GT-SC1)**

(CANNOT BE APPLIED TOWARD A.S. DEGREE)

Focuses on mechanics, heat, properties of matter, electricity and magnetism, light, and modern physics. Incorporates laboratory experience.

75 Contact Hours (45 lecture hours and 30 lab hours). Prerequisite MAT 090 or MAT 107 or MAT 108.

PHY 107 ENERGY SCIENCE AND TECHNOLOGY WITH LAB (4)***(GT-SC1)**

Explores the science of energy and energy technologies, with a focus on renewable energy resources and clean technologies. It provides a background in the physics of energy, energy transfer, and the current state of technology. Students will evaluate the future utilization of renewable technologies. Activities may include investigating conservation of energy, mechanical, electrical, heat and fluid power systems; energy transfer and loss; understanding energy audits; testing solar collectors and wind generators; investigating hydrogen fuel cells.

75 Contact Hours (45 lecture hours and 30 lab hours). Prerequisite MAT 090 or MAT 107 or MAT 108.

PHY 111 PHYSICS: ALGEBRA-BASED I WITH LAB (5)***(GT-SC1)**

Enables the student to explore the physical world through reasoning, problem solving, mathematics, and experimentation. Examines kinematics, force, circular motion, energy, momentum, torque, rotational dynamics, simple harmonic motion, temperature, heat, and thermodynamics. The concepts and theories presented are explored through demonstrations and hands-on experiments. This is a general physics course that is recommended for the health sciences and other interested students. Students entering engineering or one of the advanced sciences should register for PHY 211.

90 Contact Hours (60 lecture hours, 30 lab hours). Prerequisite: MAT 121.

PHY 112 PHYSICS: ALGEBRA-BASED II WITH LAB (5)***(GT-SC1)**

Expands upon PHY 111 and covers sound waves, electric fields, electric circuits, magnetic fields, light and optics, and modern physics. Explores the concepts and theories presented in class through demonstrations and hands-on experiments.

90 Contact Hours (60 lecture hours, 30 lab hours). Prerequisite: PHY 111.

PHY 211 PHYSICS: CALCULUS-BASED I WITH LAB (5)***(GT-SC1)**

Enables the student to examine the physical world through reasoning, problem solving, mathematics, and experimentation. Covers kinematics, force, gravity, energy, momentum, torque, rotational dynamics, and may include fluids and thermodynamics. The concepts and theories presented in class are explored through demonstrations and hands-on experiments. This first semester calculus-based physics course is recommended for students entering engineering or one of the advanced sciences.

105 Contact Hours (60 lecture hours, 45 lab hours). Prerequisite: MAT 201.

PHY 212 PHYSICS: CALCULUS-BASED II WITH LAB (5)***(GT-SC1)**

Expands upon PHY 211 and examines waves, electric fields, electric circuits, magnetic fields, light and optics, and modern physics. The concepts and theories presented in class are explored through demonstrations and hands-on experiments.

105 Contact Hours (60 lecture hours, 45 lab hours). Prerequisite: PHY 211.

POS - Political Science**POS 105 INTRODUCTION TO POLITICAL SCIENCE (3)*****(GT-SS1)**

Focuses on a survey of the discipline of political science, including political philosophy and ideology, democratic and non-democratic governments, and processes, and international relations.

45 Contact Hours.

POS 111 AMERICAN GOVERNMENT (3)***(GT-SS1)**

Includes the background of the U.S. Constitution; the philosophy of American government; general principles of the Constitution; federalism; and civil liberties. Examines public opinion and citizen participation, political parties, interest groups, and the electoral process, and the structure and functions of the national government.

45 Contact Hours.

POS 125 AMERICAN STATE AND LOCAL GOVERNMENT (3)***(GT-SS1)**

Emphasizes the structure and function of state, county, and municipal governments including their relations with each other and with national government. Includes a study of Colorado government and politics.

45 Contact Hours.

POS 136 THE AMERICAN PRESIDENCY (3)

Focuses on the office of the president as a branch of government. Examines the individuals who have occupied and shaped the presidency, and changes in the office itself.

45 Contact Hours.

POS 205 INTERNATIONAL RELATIONS (3)***(GT-SS1)**

Examines relationships among modern nation states. Topics include diplomacy, nationalism, ideologies, power and influence, conflict and cooperation, the role of non-state actors, the international economy and theoretical attempts to understand international behavior.

45 Contact Hours.

POS 215 CURRENT POLITICAL ISSUES (3)

Incorporates an in-depth analysis of critical issues in political science. Examines current topics and issues.

45 Contact Hours.

POS 225 COMPARATIVE GOVERNMENT (3)***(GT-SS1)**

Focuses on a comparison of the basic features of selected developed and developing countries. Topics include ideologies, political parties, interest groups, and governmental institutions.

45 Contact Hours.

PPT - Powerplant Technology**PPT 105 BASIC PLANT OPERATION (2)**

Provide an introduction to the major systems and components that make up a modern power plant. Students learn how electric power is produced and distributed; how boilers, turbines, and condensers operate; and what the

general responsibilities of plant operators are during all phases of plant operation. Specific attention is given to the flow of water and steam through the steam cycle, how combustion occurs, types of boilers and turbines, operation of steam cycle support systems, bearings and lubrication, turbine control, pollution control, and plant safety.

45 Contact Hours.

PPT 116 INSTRUMENTATION AND CONTROL (3)

Introduces students to power plant process control. Emphasis will center on the full range of pertinent equipment. Students will learn how to use pneumatic and electronic controls, actuators, sensors, transmitters, relays, and indicators. Students are introduced to terms such as setpoint, control point, deviation, proportional band, reset, rate, span, feedback, and feedforward. Combustion control diagrams for the following systems are also explained: a typical three-element boiler drum level control system, a fuel and air flow metering and control system, a typical hotwell level control system, and a steam temperature control system.

68 Contact Hours. Prerequisite: ELT 106.

PPT 118 SUBSTATIONS AND TRANSFORMERS (3)

Introduces the student to transformers and substation equipment as used in electric power systems. Discusses in detail, basic concepts including one line diagrams, three-phase power, the use of the per unit system, and power factor. Students will be introduced to the use of transformers and substations in electric power distribution including power factor correction and protective devices. Important aspects of transformers including basic transformer operation, transformer efficiencies, transformer protection, types of distribution transformers, and short and open circuit tests of transformers will be described and discussed. Important aspects of distribution substations will be described including common substation layout designs and criteria, substation protection, faults, and the basic substation elements.

67.5 Contact Hours. Prerequisite: ELT 106 and MAT 108

PPT 204 INTERCONNECTED SYSTEM OPERATIONS (3)

Describes and discusses the technologies and techniques currently in use for interconnected and independent power systems operations. Discusses and describes the economic, technological and public policy factors relating to interconnect systems operations. Also covers interconnected switching procedures between utilities and the role of power pools and the various organizations involved in interconnected system operations.

67.5 Contact Hours. Prerequisite: ELT 106 and MAT 108

PPT 210 STEAM TURBINES (3)

Explains various topics from steam turbine design, construction, and operation, including the tandem and cross-compound designs typically found in power stations to control and instrumentation systems. Other subjects covered include turbine startup, normal operations, procedures during abnormal and emergency conditions, and operator responsibilities.

68 Contact Hours.

PPT 215 POWER GENERATION (3)

Introduces the basic elements of generator design, protection, and operation. Students are introduced to the theoretical aspects of reactive power in power systems by analyzing the inductive and capacitive components of the system, with an emphasis on megavar loading as it is affected by the

excitation system. The generator's auxiliary systems, including hydrogen cooling systems, stator cooling systems, seal oil systems, and generator degassing procedures, are also introduced, and the function and types of exciters commonly found in power plants are examined.

68 Contact Hours. Prerequisite: ELT 106.

PSY - Psychology

PSY 101 GENERAL PSYCHOLOGY I (3)

*(GT-SS3)

Focuses on the scientific study of behavior including motivation, emotion, physiological psychology, stress and coping, research methods, consciousness, sensation, perception, learning and memory.

45 Contact Hours.

PSY 102 GENERAL PSYCHOLOGY II (3)

*(GT-SS3)

Focuses on the scientific study of behavior including cognition, language, intelligence, psychological assessment, personality, abnormal psychology, therapy, life span development and social psychology.

45 Contact Hours. Recommended Preparation: PSY 101.

PSY 205 PSYCHOLOGY OF GENDER (3)

*(GT-SS3)

Examines gender comparisons in work, courtship, family life and sexual behavior throughout the lifespan.

45 Contact Hours.

PSY 217 HUMAN SEXUALITY (3)

*(GT-SS3)

Surveys physiological, psychological and psychosocial aspects of human sexuality. Topics include relationships, sexual identity, and sexual health.

45 Contact Hours.

PSY 226 SOCIAL PSYCHOLOGY (3)

*(GT-SS3)

Focuses on the behavior of humans in social settings including attitudes, aggression, conformity, cooperation and competition, prejudice and interpersonal attraction.

45 Contact Hours. Prerequisite: PSY 101 or PSY 102.

PSY 227 PSYCHOLOGY OF DEATH AND DYING (3)

*(GT-SS3)

Examines the philosophies of life and death emphasizing dying, death, mourning and the consideration of one's own death.

45 Contact Hours.

PSY 235 HUMAN GROWTH AND DEVELOPMENT (3)

*(GT-SS3)

Examines human development from conception through death emphasizing physical, cognitive, emotional, and psychosocial factors.

45 Contact Hours.

PSY 238 CHILD DEVELOPMENT (3)***(GT-SS3)**

Focuses on the growth and development of the individual from conception through childhood, emphasizing physical, cognitive, emotional, and psychosocial factors.

45 Contact Hours.

PSY 239 ADOLESCENT AND ADULT PSYCHOLOGY (3)

Examines growth and development of the individual from adolescence to death, emphasizing physical, cognitive, emotional and psychosocial factors.

45 Contact Hours.

PSY 249 ABNORMAL PSYCHOLOGY (3)***(GT-SS3)**

Examines abnormal behavior and its classifications, causes, treatment and prevention.

45 Contact Hours. Prerequisite: PSY 101 or PSY 102.

PSY 258 INTRODUCTION TO NEUROPSYCHOLOGY (3)

Focuses on introduction to basic neuropsychological terms and concepts with emphasis on application of thinking and behavior in humans.

45 Contact Hours.

PSY 265 PSYCHOLOGY OF PERSONALITY (3)

Examines the structure, function, and development of personality. Investigates the major contemporary theories of personality. Covers psychodynamic, behavioral, cognitive-social learning, humanistic, trait, and, optionally, neurobiological, existential, and/or Eastern perspectives. The underlying assumptions and research support for these theories are appraised. Enables the student to gain an appreciation of the value of alternative theoretical approaches to this sub field of psychology.

45 Contact Hours.

REA - Reading**REA 030 BASIC READING SKILLS (2)**

Focuses on strategies for word attack, vocabulary development, stages of reading and basic reading comprehension.

30 Contact Hours. Prerequisite: Appropriate assessment scores.

REA 060 FOUNDATIONS OF READING (3)

Focuses on strategies for vocabulary development, improved reading comprehension, and enrichment.

45 Contact Hours. Prerequisite: Appropriate assessment scores or grade of "C" or better in REA 030.

REA 090 COLLEGE PREPARATORY READING (3)

Enables the student to apply strategies for improving comprehension, developing vocabulary, and increasing rate for reading college textbooks.

45 Contact Hours. Prerequisite: Appropriate assessment scores or grade of "C" or better in REA 060.

REA 112 SPEED READING (2)

Improves reading comprehension and speed of reading for students who want to enhance skills for success in college or career environments.

30 Contact Hours. Prerequisite: Appropriate assessment scores.

REC - Recreation**REC 210 PRINCIPLES OF OUTDOOR RECREATION (3)**

Includes lecture and practical outdoor experience relating to problems and trends in outdoor recreation.

60 Contact Hours.

REC 212 OUTDOOR RECREATION PROGRAMMING (3)

Provides effective planning, staffing, and budgeting for the outdoor experience for the maximum opportunity for a successful program. Issues of marketing and promotion, agency coordination, risk management, environmental impact, logistics and the customer needs and expectations are addressed.

45 Contact Hours.

RUS - Russian**RUS 101 CONVERSATIONAL RUSSIAN I (3)**

Introduces beginning students to conversational Russian and focuses on understanding and speaking Russian. Covers basic vocabulary, grammar, and expressions that are used in daily situations and in travel.

45 Contact Hours.

RUS 102 CONVERSATIONAL RUSSIAN II (3)

Continues the sequence for students who wish to understand and speak Russian. Covers basic conversational patterns, expressions, and grammar.

45 Contact Hours. Recommended Preparation: RUS 101

RUS 111 RUSSIAN LANGUAGE I (5)

Begins a sequence dealing with the development of functional proficiency in listening, speaking, reading, and writing the Russian language. Note: The order of the topics and methodology will vary according to individual texts and instructors.

75 Contact Hours.

RUS 112 RUSSIAN LANGUAGE II (5)

Continues Russian I in the development of functional proficiency in listening, speaking, reading, and writing the Russian language. Note: The order of the topics and methodology will vary according to individual texts and instructors.

75 Contact Hours. Recommended Preparation: RUS 111

RUS 201 CONVERSATIONAL RUSSIAN III (3)

Continues the sequence for students who wish to advance their study of understanding and speaking Russian. Includes intermediate level vocabulary, grammar, and expressions.

45 Contact Hours. Recommended Preparation: RUS 102

RUS 202 CONVERSATIONAL RUSSIAN IV (3)

Continues the sequence for students who wish to advance their study of understanding and speaking Russian. Focuses on intermediate level conversational patterns, expressions, and grammar.

45 Contact Hours. Recommended Preparation: RUS 201 or equivalent.

RUS 211 RUSSIAN LANGUAGE III (3)***(GT-AH4)**

Continues Russian Language I and II in the development of increased functional proficiency in listening, speaking,

reading, and writing the Russian language. Note: The order of topics and methodology will vary according to individual texts and instructors.

45 Contact Hours. Required Preparation: *RUS 112 or equivalent.*

RUS 212 RUSSIAN LANGUAGE IV (3)

***(GT-AH4)**

Continues Russian Language I, II and III in the development of increased functional proficiency in listening, speaking, reading, and writing the Russian language. Note: The order of topics and methodology will vary according to individual texts and instructors.

45 Contact Hours. Required Preparation: *RUS 211 or equivalent.*

SCI - Science

SCI 155 INTEGRATED SCIENCE I WITH LAB (4)

***(GT-SC1)**

(CANNOT BE APPLIED TOWARD A.S. DEGREE)

Examines the nature of energy and matter, their interactions and changes, and the application of fundamental concepts to the study of our natural world. These concepts will be explored in hands-on laboratory experiments. This course integrates the fundamental concepts and ideas about the nature of physics and chemistry with the natural world.

75 Contact Hours (45 lecture hours, 30 lab hours).

SCI 156 INTEGRATED SCIENCE II WITH LAB (4)

***(GT-SC1)**

(CANNOT BE APPLIED TOWARD A.S. DEGREE)

Examines earth and biological systems, living and non-living environments, through the application of fundamental energy and matter concepts. These systems and concepts will be explored in hands-on laboratory experiments.

75 Contact Hours (45 lecture hours, 30 lab hours).

SOC - Sociology

SOC 101 INTRODUCTION TO SOCIOLOGY I (3)

***(GT-SS3)**

Examines the basic concepts, theories, and principles of sociology as well as human culture, social groups, and the social issues of age, gender, class, and race.

45 Contact Hours.

SOC 102 INTRODUCTION TO SOCIOLOGY II (3)

***(GT-SS3)**

Examines social institutions and organizations from the macro perspective. Emphasizes issues of social change, demography, social movements, and conflicts and trends within education, religion, family, political, and economic structures.

45 Contact Hours.

SOC 205 SOCIOLOGY OF FAMILY DYNAMICS (3)

***(GT-SS3)**

Develops an understanding of marriage, family and kinship. Examines the family as an institution and how social, cultural and personal factors influence family relations. The stability and diversity of the family will be explored, along with current trends and some alternative life styles.

45 Contact Hours.

SOC 207 ENVIRONMENTAL SOCIOLOGY (3)

***(GT-SS3)**

Examines humans and the environment from an ecological perspective. Focuses on industrial and economic growth versus sustainability, natural resources development and management, environmental values and social movements, and comparative perspectives on people's relationship to the environment. Review of the "Green" movement and other environmental movements and their impacts upon social dynamics, the environment, and the evolution of social movements.

45 Contact Hours.

SOC 208 RESTORATIVE JUSTICE I (3)

Provides an introduction to the principles and practices of Restorative Justice, an important approach to harm, crime and community. Examines the history and theory behind this paradigm, comparing and contrasting restorative and retributive approaches. Looks at applications in a number of settings, including schools and the criminal justice system. National and international examples will be discussed.

45 Contact Hours.

SOC 210 TECHNOLOGY AND SOCIETY (3)

This course analyzes the relationship between technology and human society and culture; how technology has influenced the development of society and how social and cultural forces have influenced the development of technology. The course will examine both current and historical examples of key technologies and the ways their development and utilization have been contextualized by society and culture. In particular, the course will explore the implications of living in a modern society defined by increasing dependence on complex technologies and rapid technological change.

45 Contact Hours.

SOC 212 RESEARCH IN SOCIAL SCIENCES (3)

Introduces social research methods with an emphasis on the scientific method and the role of empirical inquiry into sociology. This course will include the study of methodologies of data collection and analysis, the logic of research, the role of theory, measurement, sampling and research designs. Field research and the professional norms and ethics of social research will also be covered.

45 Contact Hours.

SOC 215 CONTEMPORARY SOCIAL PROBLEMS (3)

***(GT-SS3)**

Explores current social issues that result in societal problems. Focuses on such issues as civil liberties, gender, religious and ethnic discrimination, substance abuse, crime, poverty, and social change.

45 Contact Hours.

SOC 216 SOCIOLOGY OF GENDER (3)

***(GT-SS3)**

Explores the theoretical and factual background necessary to understand the phenomenon of gender stratification in American and other cultures. Students will be exposed to a history of gender stratification in human societies, theoretical explanations for this and insights into the consequences of gender differentiation in our world today.

45 Contact Hours.

SOC 218 SOCIOLOGY OF DIVERSITY (3)***(GT-SS3)**

Explores the variety of intergroup relations regarding race, nationality, ethnicity, gender, sexual orientation, and other diversity issues. Patterns of prejudice, discrimination and possible solutions to these issues will be addressed.

45 Contact Hours.

SOC 220 SOCIOLOGY OF RELIGION (3)***(GT-SS3)**

Provides an introduction to the sociology of religion, including a comparative and critical examination of world religions, by focusing on sociological interpretation and explanation of the role of religion in human culture. The interaction between society and religion is thus examined as are a wide variety of religious beliefs and practices.

45 Contact Hours.

SOC 231 SOCIOLOGY OF DEVIANT BEHAVIOR (3)***(GT-SS3)**

Examines the nature, identification and explanation of deviant categories. Theories and philosophies as well as methods of treatment related to deviancy will be considered. The course will study society's attempts to control, change and institutionalize those acts, individuals or groups that a population may deem unacceptable.

45 Contact Hours.

SOC 237 SOCIOLOGY OF DEATH AND DYING (3)***(GT-SS3)**

Provides an opportunity to familiarize students and professionals with the needs and issues surrounding dying and death. This course will provide sociological, psychological, religious, historical and anthropological perspectives for interpreting contemporary American customs dealing with dying, death and bereavement. Examines the professions associated with death and dying, such as hospice, funeral and crematory institutions, and medical care.

45 Contact Hours.

SOC 240 CULTS, EXTREMIST & RELIGIOUS MOVEMENTS (3)

Provides familiarization with sociological issues surrounding cults, extremist groups and new religious movements including theory and dynamics of cults, gangs and hate groups. Emphasis is on the destructive elements of this collective behavior. This course provides sociological perspectives for interpreting American laws, norms and values while examining extremist groups. This includes the study of in-group behavior, social cohesion, emergence of generalized beliefs, and both narrative and value-oriented movements.

45 Contact Hours.

SOC 265 VIOLENCE AND CULTURE (3)

Examines the concepts, relationships, organizations, and research as they relate to violence in multiple cultural settings. SOC 265 assists in developing an understanding of societal and institutional causes of violence; explores resources for intervention and treatment; and provides service learning applications in violence assessment, treatment, and victim assistance.

45 Contact Hours.

SPA - Spanish**SPA 101 CONVERSATIONAL SPANISH I (3)**

Offers beginning students the skills necessary to understand and speak Spanish. The material includes basic vocabulary, grammar, and expressions that are used in daily situations and in travel.

45 Contact Hours.

SPA 102 CONVERSATIONAL SPANISH II (3)

Offers students the skills necessary to understand and speak Spanish. The material continues to cover basic conversational patterns, expressions, and grammar.

45 Contact Hours. Recommended Preparation: SPA 101 or equivalent.

SPA 111 SPANISH LANGUAGE I (5)

Develops students' interpretive, interpersonal, and presentational communicative abilities in the language. Integrates these skills in the cultural contexts in which the language is used. Offers a foundation in the analysis of culture.

75 Contact Hours.

SPA 112 SPANISH LANGUAGE II (5)

Expands students' interpretive, interpersonal, and presentational communicative abilities in the language across the disciplines. Integrates these skills with the study of the cultures in which the language is used. Offers a foundation in the analysis of culture and develops intercultural communicative strategies.

75 Contact Hours. Recommended Preparation: SPA 111 or equivalent.

SPA 114 FAST-TRACK SPANISH I AND II (5)

Designed to bridge beginning SPA courses with intermediate SPA courses. It is designed for students who have studied two years of the target language in high school and possess linguistic and cultural knowledge that true beginners do not, but are not ready yet to move to the intermediate level because they need an in-depth review of essential structures.

75 Contact Hours. Recommended Preparation: SPA 111 or equivalent.

SPA 115 SPANISH FOR THE PROFESSIONAL I (3)

Designed as an introduction to a working knowledge of the target language, cultural behaviors and values useful in various professional fields such as health care, law enforcement, bilingual education, business and others.

45 Contact Hours.

SPA 194 SERVICE LEARNING (1-12)

Allows the student to provide a service to the community utilizing knowledge and skills acquired from a course in which the student is currently enrolled or has previously taken at the student's respective college.

45 Contact Hours per credit.

SPA 201 CONVERSATIONAL SPANISH III (3)

Provides students with the skills necessary to continue their study of understanding and speaking Spanish. The material includes intermediate level vocabulary, grammar, and expressions.

45 Contact Hours. Recommended Preparation: SPA 102 or equivalent.

SPA 202 CONVERSATIONAL SPANISH IV (3)

Provides students the skills necessary to continue their study of understanding and speaking Spanish. The material will

continue to cover intermediate level conversational patterns, expressions, and grammar.

45 Contact Hours. Recommended Preparation: SPA 201 or equivalent.

SPA 211 SPANISH LANGUAGE III (3)

***(GT-AH4)**

Continues Spanish Language I and II in the development of increased functional proficiency in listening, speaking, reading, and writing the Spanish language.

45 Contact Hours. Required Preparation: SPA 112 or SPA 114

SPA 212 SPANISH LANGUAGE IV (3)

***(GT-AH4)**

Continues Spanish Language I, II and III in the development of increased functional proficiency in listening, speaking, reading, and writing the Spanish language.

45 Contact Hours. Required Preparation: SPA 211

SPA 215 SPANISH FOR THE PROFESSIONAL II (3)

Continues SPA 115 in the development of a working knowledge of the target language, cultural behaviors and values useful in various professional fields such as health care, law enforcement, bilingual education, business and others.

45 Contact Hours. Recommended Preparation: SPA 115 or equivalent.

SPA 235 SPANISH READING/Writing (3)

Builds vocabulary and develops reading and writing strategies in Spanish to be able to analyze fictional and non-fictional texts and gain further cultural insight of the Hispanic world.

45 Contact Hours. Recommended Preparation: SPA 212 or equivalent.

SPA 261 GRAMMAR FOR HERITAGE LANGUAGE SPEAKER (3)

Provides formal grammatical instruction to Foreign Language students whether native or bilingual who want to develop their existing proficiency in the target language.

45 Contact Hours. Recommended Preparation: SPA 212 or equivalent.

SPA 262 COMPOSITION FOR THE HERITAGE LANGUAGE SPEAKER (3)

Provides formal composing instruction to Spanish Language students whether native or bilingual who want to develop their existing proficiency in the target language.

45 Contact Hours. Recommended Preparation: SPA 212 or equivalent.

SPE - Speech

See COM--Communications section for speech classes

SVT - Sport Vehicle Technology

SVT 160 BASIC MOTORCYCLE REPAIR I (1)

Designed to expose current and prospective entry-level motorcycle technicians to basic motorcycle maintenance and repair. Focus will be placed on routine and preventative maintenance. Topics covered in the class include basic safety, hand tool and shop procedure. One objective is to make the learner more familiar with mechanical concepts and more confident in their own ability. Course study may be tailored for each student's specific area of need or interest.

22.5 Contact Hours. Prerequisites: Completion of ENG 060, MAT 060, and REA 060 with grades of "C" or better or equivalent placement test scores. Recommended Preparation: Completion of ENG 090, MAT 090, and REA 090 with grades of "C" or better or equivalent placement test scores. Note: Possible high course fees.

SVT 165 BASIC MOTORCYCLE REPAIR II (1)

Designed to build upon concepts and practices learned in SVT 160. Focus will be placed on routine and preventative maintenance. Topics covered will include study of motorcycle frame, suspension, tire and wheels. One objective is to make the learner more familiar with mechanical concepts and more confident in their own ability. Course study may be tailored for each student's specific area of need or interest.

22.5 Contact Hours. Prerequisites: Completion of SVT 160 and ENG 060, MAT 060, and REA 060 with grades of "C" or better or equivalent placement test scores. Recommended Preparation: Completion of ENG 090, MAT 090, and REA 090 with grades of "C" or better or equivalent placement test scores. Note: Possible high course fees.

SVT 170 BASIC MOTORCYCLE REPAIR III (1)

Designed to build upon concepts and practices learned in previous classes. Focus will be placed on routine and preventative maintenance. Topics covered will include study of motorcycle brakes and steering systems. One objective is to make the learner more familiar with mechanical concepts and more confident in their own ability. Course study may be tailored for each student's specific area of need or interest.

22.5 Contact Hours. Prerequisites: Completion of SVT 165 and ENG 060, MAT 060, and REA 060 with grades of "C" or better or equivalent placement test scores. Recommended Preparation: Completion of ENG 090, MAT 090, and REA 090 with grades of "C" or better or equivalent placement test scores. Note: Possible high course fees.

TEL - Teaching English as a Second Language (TESL)

TEL 100 TESL (TEACHING ENGLISH AS A SECOND LANGUAGE) ENGLISH STUDY (3)

Provides an overview of the English language for the purpose of teaching English to speakers of other languages. It includes descriptive and contrastive analyses of English phonology, morphology, syntax, semantics and discourse.

45 Contact Hours.

TEL 102 PROCEDURES AND TECHNIQUES FOR THE English as a Second Language CLASSROOM (3)

Focuses on the teaching of English grammar, speaking and listening, and reading and writing in the English as a Second Language (ESL) classroom. Instruction includes writing lesson plans, selecting and adapting instructional resources and technology, developing classroom management skills, and integrating cultural awareness. TESL students have the opportunity to observe various working models.

45 Contact Hours.

TEL 103 CAREER STRATEGIES FOR THE TESL WORKPLACE (1)

Presents professional English as a Second Language (ESL) representatives from various area domains such as community college, teaching TESL abroad, community-based ESL adult schools, K-12 options, entrepreneurial use in workplace literacy, virtual ESL possibilities, private ESL institutions, and business technical areas for ESL abroad and locally. It provides interaction with professional teachers working in the field. An additional workshop will help students develop TESL job search skills and resume writing.

15 Contact Hours.

TEL 188 TESL TEACHING PRACTICUM (2)

Provides a supervised student teaching practicum in an ESL school, class or community agency. Students will work with an ESL mentor for planning and delivering lessons to a group of ESL students.

60 Contact Hours. Prerequisites or corequisites: TEL 100, TEL 102.

TEL 225 SECOND LANGUAGE ACQUISITION (3)

Examines the intricate web of variables that interact in the second language learning process. The emphasis in the course will be on examining each of these variables and then attempting to understand how they work together to foster or inhibit successful second language learning and acquisition.

45 Contact Hours.

See the list of Specialized Courses on the first page of this Course Offerings section.

TEL 245 ESL IN THE CONTENT AREAS (3)

Prepares teachers who work with limited English proficient students to integrate effective instructional strategies that will assist in the development of English Language learners' (ELLs) social and academic English and support their transition to US culture and schools. This course is appropriate in a variety of program models, mainstream classrooms, self-contained ESL classrooms, and bilingual programs and may be adapted for use with pre-service teachers and para-educators.

45 Contact Hours.

THE - Theatre Arts**THE 105 THEATRE APPRECIATION (3)**

***(GT-AH1)**

Includes discussions, workshops, and lectures designed to discover, analyze and evaluate all aspects of the theatre experience: scripts, acting, directing, staging, history, criticism, and theory.

45 Contact Hours.

THE 106 CROSS-CULTURAL STORYTELLING (4)

Offers international and American students the opportunity to share ethnic/cultural experiences by using the theatre techniques of storytelling, improvisation, mime, verbal and non-verbal language, scripting, and staging techniques resulting in performance projects.

60 Contact Hours.

THE 108 THEATRE SCRIPT ANALYSIS (3)

This course introduces students to methods of reading and analyzing literature for the stage. In addition, students will apply staging and design concepts in visualizing and analyzing how a play looks, sounds, and feels when produced.

45 Contact Hours.

THE 111 ACTING I (3)

Covers basic acting techniques and approaches including scene study, improvisation, and script analysis. It includes practical application through classroom performance.

45 Contact Hours.

THE 112 ACTING II (3)

Continues to explore basic acting techniques and approaches including scene study, improvisation, and intermediate script analysis. It includes practical application through classroom performance.

45 Contact Hours. Prerequisite: THE 111.

THE 115 STAGE MOVEMENT FOR ACTORS (3)

Introduces the vocabulary of human movement, techniques of physical training, and anatomy and kinesiology for the actor. The course includes forms of basic dance and the coordination of movement with vocal delivery.

45 Contact Hours.

THE 116 TECHNICAL THEATRE (3)

Introduces hands-on methods of constructing and painting scenery and properties and operating stage lighting. Students also learn the proper procedures of using shop equipment and serving on stage crews.

45 Contact Hours.

THE 131 THEATRE PRODUCTION I (3)

Allows students to put into practice theories of theatre production. Participation in set construction, scenic artistry, costuming, lighting, sound, acting, stage-managing, and administration is available.

45 Contact Hours.

THE 132 THEATRE PRODUCTION II (3)

Allows students to put into practice theories of theater production. Participation in set construction, scenic artistry, costuming, lighting, sound, acting, stage-managing, and administration is available.

45 Contact Hours. Prerequisite: THE 131.

THE 135 STAGE MAKEUP I (3)

Covers makeup design and application techniques. Techniques include basic corrective, character, old age, and fantasy application.

45 Contact Hours.

THE 136 STAGE MAKEUP II (3)

Continues to explore theatrical makeup design and application techniques. In addition, prosthetics, hair design and other more advanced applications will be explored.

45 Contact Hours. Prerequisite: THE 135 or instructors permission.

THE 141 IMPROVISATION I (1)

Helps students learn improvisation skills for performance and character development. Emphasis is placed on "Second City" style of improvisation.

15 Contact Hours.

THE 211 DEVELOPMENT OF THEATRE: GREEK-RENAISSANCE (3)

***(GT-AH1)**

Surveys the history and evolution of drama from ancient Greece to the Renaissance, emphasizing all aspects of the art form from period values to analysis of dramatic literature and performance.

45 Contact Hour

THE 212 DEVELOPMENT OF THEATRE: RESTORATION-MODERN (3)

***(GT-AH1)**

Surveys the history and evolution of drama from the Renaissance to the present, emphasizing all aspects of the art form from period values to the analysis of dramatic literature and performance.

45 Contact Hours.

THE 213 INTERMEDIATE ACTING I (3)

Continues Acting Theatre 112. Emphasis is on artistic concentration of voice and movement. A detailed character biography is required.

45 Contact Hours.

THE 214 INTERMEDIATE ACTING II (3)

Emphasizes artistic concentration of voice and movement. Detailed character biography is required. This course is a continuation of THE 213.

45 Contact Hours. Recommended Preparation: THE 213

THE 215 PLAYWRITING (3)

Gives students the opportunity to learn and practice playwriting techniques, thereby improving creative writing skills. Elements of dramatic structure, dialogue, styles and theatrical practices are emphasized.

45 Contact Hours.

THE 218 READERS' THEATRE (3)

Studies ensemble interpretation of literature, poetry, prose, and drama, primarily through the medium of the spoken word.

45 Contact Hours.

THE 231 THEATRE PRODUCTION III (3)

Allows students to put into practice theories of theatre production. Participation in set construction, scenic artistry, costuming, lighting, sound, acting, stage managing, and administration is available.

45 Contact Hours.

THE 232 THEATRE PRODUCTION IV (3)

Allows students to put into practice theories of theatre production. Participation in set construction, scenic artistry, costuming, lighting, sound, acting, stage managing, and administration is available.

45 Contact Hours.

THE 237 HISTORY OF COSTUMES AND FASHION (3)

Provides an examination of the clothing and accessories used by humans around the world from Prehistoric to Modern times.

45 Contact Hours.

THE 240 THEATRE VOICE AND DICTION (3)

Provides students with individual tutorials which define, design and apply specific vocal techniques to abate singing and speech difficulties. Master class performances provide the opportunity to conjure the energy, charisma and stage command necessary for presentations.

45 Contact Hours.

THE 245 BASIC COSTUME DESIGN AND CONSTRUCTION (3)

Explores the basics of costume design and color theory. Construction techniques using regular and industrial sewing machines will be applied in constructing costumes and accessories. Students will be introduced to pattern drafting.

45 Contact Hours.

THE 255 INTERMEDIATE PLAYWRITING (3)

This course continues to explore playwriting techniques developed in THE 215 for theatre and applies concepts of

writing for Description: movie, television, radio, and animation scripts, with emphasis on the dramatic process and form.

45 Contact Hours.

THE 283 INTERNSHIP: SUMMER STOCK THEATRE (1-3)

Allows students to participate in summer play production that often includes outdoor performances and touring opportunities. Plays by classic authors, such as Shakespeare and Moliere, are frequently performed. Participation in all aspects of theatre production is available.

15 Contact Hours per credit.

See the list of Specialized Theatre Arts Courses on the first page of this Course Offerings section.

VET - Veterinary Technology**VET 103 VETERINARY ASSISTANT RESTRAINT AND HANDLING (3)**

Designed to give students knowledge and skills required to handle and restrain small and large animal species common to the veterinary assistant in practice. Provides experience in several common clinical procedures including muzzling, haltering, nail trimming, bathing and vaccine preparation.

60 Contact Hours. Prerequisite: Admission to the VET Tech Assistant program.

VET 106 EXOTIC ANIMAL HANDLING (2)

Designed to provide students knowledge and skills required for veterinary technicians. This course focuses on exotic and laboratory animal husbandry, handling, restraint, and specific problems encountered with exotic and laboratory animals.

45 Contact Hours. Prerequisite: Admission to the VET program. NOTE: Handling of animals will include exotic pets and laboratory animals.

VET 108 INTRODUCTION TO LABORATORY PROCEDURES (3)

Studies the biology, clinical appearance and laboratory diagnosis of parasitic diseases of veterinary and zoonotic importance.

60 Contact Hours. Prerequisite: Admission to the VET program and BIO 111.

VET 113 VETERINARY ASSISTANT SURGICAL NURSING AND CARE (3)

Introduces surgical assisting of the veterinarian and/or the veterinary technician, including basic knowledge of surgical instruments and surgery room hygiene. Also introduces basic nursing care of animal patients including safety concerns and nursing procedures.

60 Contact Hours. Prerequisite: Admission to the VET Tech Assistant program.

VET 114 VETERINARY ASSISTANT LABORATORY AND CLINICAL PROCEDURES (2)

Covers selected areas of common laboratory and diagnostic imaging procedures performed in a veterinary hospital. Emphasis is on assisting the veterinarian and/or veterinary technician with these procedures.

45 Contact Hours. Prerequisite: Admission to the VET Tech Assistant program.

VET 115 SURGICAL NURSING (2)

Constructed for the student with limited background in veterinary medicine. The course expresses the need for familiarity with instruments, surgical support equipment, and proficiency in the proper preparation of the operating room.

45 Contact Hours. Prerequisites: VET 205 and VET 206 Corequisite: VET 206.

VET 116 HUMANE TREATMENT AND HANDLING OF ANIMALS (3)

Designed to give students knowledge and skills required for veterinary technicians. The course focuses on animal welfare and humane treatment during handling and restraint, behavior, safety, equipment choice, and typical clinical procedures.

75 Contact Hours. Prerequisite: Admission to VET or ALT program (approval pending). NOTE: Handling of animals will include domestic small and large species.

VET 120 OFFICE PROCEDURES AND RELATIONS (2)

Presents commonly encountered clinical procedures with the emphasis on the role of the veterinary technician in the management of veterinary patients and records. The course also includes introduction to veterinary management software and on-line veterinary services.

45 Contact Hours. Prerequisite: Admission to VET program.

VET 134 DIAGNOSTIC IMAGING (2)

Covers selected areas of diagnostic imaging with an emphasis on radiology. Topics will include radiation properties, x-ray production, radiographic equipment, darkroom procedures, the radiographic image, animal positioning and radiation safety. An introduction to special imaging techniques such as computed tomography (CT scan) and ultrasound will also be included.

45 Contact Hours. Prerequisites: MAT 107 or MAT 103 and VET 205.

VET 180 INTERNSHIP: PRIVATE PRACTICE (3)

Participate in a 135 hour externship experience in a private practice. The student is involved in the day-to-day work of the practice including restraint and handling of animals, office procedures, clinical laboratory techniques, radiology, pharmacy and surgery preparation.

135 Contact Hours. Prerequisites: VET 108, VET 115, VET 116, VET 120, VET 134, VET 224 and VET 241.

VET 181 INTERNSHIP: LABORATORY ANIMAL TECHNOLOGY (2)

Provides externship experience through Laboratory Animal Resources at Colorado State University. The course introduces career opportunities in a laboratory animal setting

90 Contact Hours. Prerequisite: VET 116.

VET 183 INTERNSHIP (2)

Veterinary Assistant students participate in a 72 hour internship in a private practice. This provides students with practical day to day experience in handling and restraint of animals, assisting with office procedures, clinical laboratory techniques, and surgical preparation.

72 Contact Hours. Prerequisite: Completion of VET 120, VET 103, VET 113, VET 114.

VET 205 VETERINARY ANATOMY AND PHYSIOLOGY I (4)

Provides background in the anatomy and physiology of animals. The class covers the structure and function of each body system, including skeletal, muscular, circulatory, integumentary, and respiratory. Other subjects include principles of metabolism and unique characteristics of common domestic species. Applied laboratory experiences are included.

75 Contact Hours. Prerequisite: Admission to the VET or ALT program and BIO 111.

VET 206 VETERINARY ANATOMY AND PHYSIOLOGY II (4)

Provides additional detail in anatomy and physiology of companion and farm animal species. The class covers interrelationships between body systems, such as respiratory, cardiovascular, urogenital, and reproductive. Additional topics include metabolism and digestion, acid/base balance, neurology, and reproductive endocrinology. Applied laboratory experiences are included as well as clinical applications of anatomy.

75 Contact Hours. Prerequisite: VET 205.

VET 224 PHARMACOLOGY FOR VETERINARY TECHNICIANS (3)

Provides background in pharmacology principles including topics such as: mechanism of drug action, types of drugs, anesthetic agents, pharmacy management and calculations related to drug dosages.

60 Contact Hours. Prerequisites: MAT 103 or MAT 107 and VET 205 or VET 206 Corequisite: VET 206.

VET 225 ANESTHESIOLOGY (3)

Covers appropriate forms of injectable and gaseous anesthesia for surgical and diagnostic procedures. Other topics include anesthetic monitoring, emergency procedures, and pain management.

60 Contact Hours. Prerequisites: VET 206 and VET 224.

VET 227 ANIMAL NUTRITION (2)

Gives students a foundation in the principles of animal nutrition. The course focuses on the basic elements of nutrition including the major categories of nutrients, and their sources, digestion, and metabolism. Both large and small animal feeds and feeding will be covered. The course emphasizes the relationship between nutrition and health.

45 Contact Hours. Prerequisite: VET 206.

VET 240 VETERINARY MEDICINE AND SURGERY (4)

Presents commonly encountered medical and surgical conditions of animals with the emphasis on the role of the veterinary technician in the management of these conditions. This course includes hands-on labs in catheterization, bone marrow aspirates, centesis and others.

75 Contact Hours. Prerequisite: VET 116.

VET 241 CLINICAL LABORATORY PROCEDURES (4)

Discusses the biochemical derangements that characterize disease. Topics include proper collection and analysis of urine, blood, and cytological samples; basic principles of anatomic pathology; necropsy procedure and sample collection.

90 Contact Hours. Prerequisites: VET 108 and VET 205.

VET 242 VETERINARY CRITICAL CARE (2)

Provides instruction in appropriate nursing assessment, monitoring and intervention with emergencies. Uses knowledge and understanding of overall anatomy, physiology, and disease or accident process to assist in veterinarian's diagnoses and treatment.

30 Contact Hours. Prerequisite: Admission to the VET program or Certification as a Veterinary Technician.

VET 243 VETERINARY DIAGNOSTIC MICROBIOLOGY (3)

Includes the biology, clinical appearance and laboratory diagnosis of bacterial and viral diseases of veterinary and zoonotic importance.

60 Contact Hours. Prerequisite: Admission to the VET program and BIO 111.

NOTE: Laboratories will include microscope analysis of samples.

VET 250 CLINICAL COMPETENCY EVALUATION (1)

Evaluates the students' clinical skills and knowledge after successful completion of the internship courses, in order to prepare them for the national board examination and clinical practice. Evaluation of clinical skills and knowledge includes selected clinical laboratory techniques (parasitology, hematology, urinalysis, cytology, chemistry, serology, microbiology); diagnostic imaging; office procedures; surgical preparation, instrumentation and assistance; anesthesia induction, maintenance and monitoring; restraint and handling techniques; small, large and laboratory animal diagnostic and therapeutic techniques; and pharmacology calculations, labeling and drug classification.

23 Contact Hours. Prerequisite: VET 180.

See the list of Specialized Courses on the first page of this Course Offerings section.

WEL - Welding Technology**WEL 100 SAFETY FOR WELDERS (1)**

Covers the hazards of welding on health and safety, locating essential safety information from a code or other standard, and identifying and applying shop safety procedures.

22.5 Contact Hours.

WEL 101 ALLIED CUTTING PROCESSES (4)

Covers setting up equipment and performing cutting and gouging operations utilizing the oxyacetylene, air carbon arc, exothermic, and plasma arc cutting processes. This course will also provide an introduction to blueprint reading.

90 Contact Hours. Prerequisite: WEL 100. Corequisite: WEL 100.

WEL 103 BASIC SHIELDED METAL ARC I (4)

Covers performing safety inspections, making minor repairs, adjusting operating parameters, and operating SMAW equipment utilizing E-6010, E-6013, and E-7018 electrodes. Layout procedures and practices will also be introduced.

90 Contact Hours. Prerequisite: WEL 100. Corequisite: WEL 100.

WEL 104 BASIC SHIELDED METAL ARC II (4)

Covers performing safety inspections, making minor repairs, adjusting operating parameters, and operating SMAW equipment utilizing E-7018 and E-6010 electrodes. Layout procedures will be practiced during this course.

90 Contact Hours. Prerequisite: WEL 100 and WEL 103. Corequisite: WEL 100 and WEL 103.

WEL 106 BLUEPRINT READING FOR WELDERS AND FITTERS (4)

Covers interpreting weld symbols on blueprints, identifying proper layout methods and tools, and proper joint design necessary for various welding processes.

60 Contact Hours.

WEL 110 ADVANCED SHIELDED METAL ARC I (4)

Covers performing safety inspections, minor repairs, operating parameters, operation of SMAW equipment, and SMAW operations on groove and fillet welds utilizing E-6010 and E-

7018 electrodes. Layout procedures will be practiced during this course.

90 Contact Hours. Prerequisite: WEL 100 and WEL 104. Corequisite: WEL 100.

WEL 124 INTRODUCTION TO GAS TUNGSTEN ARC WELDING (4)

Covers welding in all positions and on various joint configurations using the Gas Tungsten Arc Welding (Tungsten Inert Gas) welding process on carbon steel, stainless steel and aluminum. Student should be familiar with basic metallurgy pertaining to the weldability of metals, structural joints, and safety in the welding industry.

90 Contact Hours. Prerequisite: WEL 100. Corequisite: WEL 100.

WEL 125 INTRODUCTION TO GAS METAL ARC WELDING (4)

Covers welding in all positions and on various joint configurations using the Gas Metal Arc Welding (Metal Inert Gas) welding process and flux core welding on carbon steel, stainless steel and aluminum. Student should be familiar with basic metallurgy pertaining to the weld ability of metals, structural joints, and safety in the welding industry.

90 Contact Hours. Prerequisite: WEL 100. Corequisite: WEL 100.

WEL 224 ADVANCED GAS TUNGSTEN ARC WELDING (4)

Covers welding in all positions on carbon steel, stainless steel and aluminum plate and carbon steel pipe with the GTAW process and welding 3G and 4G vee groove plates. Student should be familiar with basic metallurgy pertaining to the weld ability of metals, structural joints, and safety in the welding industry.

90 Contact Hours. Prerequisite: WEL 124. Corequisite: WEL 100.

WEL 225 ADVANCED GAS METAL ARC WELDING (4)

Covers welding in all positions on carbon steel plate with the Gas Metal Arc Welding process. Student should be familiar with basic metallurgy pertaining to the weld ability of metals, structural joints, and safety in the welding industry.

90 Contact Hours. Corequisites: WEL 125 and WEL 100.

WEL 230 PIPE WELDING I (4)

Covers safety inspections, minor repairs, operating parameters, and operation of Shielded Metal Arc Welding, Gas Metal Arc Welding, and Flux Cored Arc Welding equipment in a variety of positions on plain carbon steel pipe joints. Also covers evaluating and solving complex welding and fabrication problems and administering hands-on training and supervision to other students during assigned fabrication and welding operations.

90 Contact Hours. Prerequisite: WEL 110 and WEL 225. Corequisite: WEL 100.

WEL 231 PIPE WELDING II (4)

Covers safety inspections, minor repairs, operating parameters, and operation of Shielded Metal Arc Welding, Gas Metal Arc Welding, and Flux Cored Arc Welding equipment in a variety of positions on plain carbon steel pipe joints. Also covers evaluating and solving complex welding and fabrication problems and administering hands-on training and supervision to other students during assigned fabrication and welding operations.

90 Contact Hours. Prerequisite: WEL 230. Corequisite: WEL 100.

WEL 240 PIPE WELDING CERTIFICATION (4)

Introduces theory and practice in modern welding methods of pressure pipeline and pipe systems. Emphasis toward welder qualification under various codes.

90 Contact Hours. Prerequisite: WEL 231 and WEL 100. Corequisite: WEL 100.

WEL 250 LAYOUT AND FABRICATION (4)

Develops welding and associated skills in the use of drawings and blueprints in planning. Includes designing and layout of projects.

90 Contact Hours. Prerequisite: WEL 100. Corequisite: WEL 100.

WEL 264 CREATIVE WELDING (4)

Introduces design and construction of welded sculptures with the use of different fabrication techniques. This course includes uses of different metalworking machines, hot and cold working practices, and demonstration of coloring and texturing metal.

90 Contact Hours. Corequisite: WEL 100.

WEL 275 SPECIAL TOPICS: SCULPTURAL WELDING (3)

Introduces Welding Brazing and Cutting steel with the use of Welding applications and processes. This course provides the student with the skills to create sculptural welded art.

90 Contact Hours. Prerequisite: WEL 106.

WST - Women's Studies**WST 200 INTRODUCTION TO WOMEN'S STUDIES (3)**

*(GT-SS3)

Examines the nature and function of women in society from an interdisciplinary perspective, focusing on the similarity and diversity of women's experience over time and across cultures. The course will examine topics such as sex role, socialization, political, and philosophical perspectives on women's issues, and women's accomplishments in history, art, literature, science, health issues and the family. Students will gain an awareness of the limitations of traditional scholarship on women, and gain a means of practical application of the new scholarship on women's roles and nature.

45 Contact Hours.

WST 225 WOMEN AND SOCIAL CHANGE (3)

*(GT-SS3)

Enables students to gain an understanding of the role of the systems of oppression in society and avenues available to them to create both individual and collective change through social action. Each student becomes aware of their ability to enact change and the empowerment that process provides. We will explore issues of diversity including, but not limited to, race, class gender, age and disability. The course emphasizes critical thinking skills and is informed by feminist pedagogy.

45 Contact Hours.

WST 240 GODDESSES AND WOMEN IN THE ANCIENT WORLD (3)

*(GT-SS3)

Surveys gender socialization and the roles, challenges, contributions, and images of women in the development of cultures. Through a study of arts, literature, music, politics, religion, philosophy, laws, and social standards, students are introduced to the history of ideas that have defined women's place in societies. It examines goddesses, rituals, and

ceremonies and how the image of the Feminine Divine changed from matriarchal cultures through the establishment of patriarchal cultures. These topics will be viewed through diverse cultures, including European and non-European, from the Ancient World through the Middle Ages.

45 Contact Hours.

WST 249 WOMEN'S SEXUALITY (3)

*(GT-SS3)

Explores how different cultures have understood women's sexuality and the power of femininity. The course addresses theories of sexuality and erotic power, women's sexualities across cultures and throughout the lifespan, the perception of sexuality in religion and history, and creative visualizations of women's sexuality in literature, visual, musical and performance art.

45 Contact Hours.

Course Changes

Courses Added

<i>COURSENUMBER&NAME</i>	<i>CREDITS</i>
AAA 091 Online Learning Strategies	1
AAA 099 Active Learning Skills	1
ACC 269 Accounting Systems	3
ASL 244 ASL Linguistics	3
BIO 160 Introduction to Biotechnology	3
CAD 222 AUTODESK Navisworks	3
CSC 252 Database Program/Visual Basic	3
ECO 211 Gender in the Economy	3
EGG 211 Engr Mechanics I - Statics	3
EGG 212 Engineering Mech II (Dynamics)	3
EGT 101 Technical Drafting I	3
EMS 121 EMT Fundamentals	3
EMS 122 EMT Medical Emergencies	4
EMS 123 EMT Trauma Emergencies	2
EMS 124 EMT Special Considerations	2
ENV 101 Environmental Sci w/Lab: SC1	4
ESL 051 Basic Composition	3
ESL 091 Basic Intensive English	8
ESL 092 High Basic Intensive English	8
ESL 093 Low Inter Intensive English	8
ESL 094 Intermediate Intensive English	8
ESL 095 High Inter Intensive English	8
ESL 096 Low Advanced Intensive English	8
HHP 108 Aromatherapy	1
HHP 211 Herbology II	2
HIS 205 Women in World History	3
HIT 241 CPT Coding Basic Principles	3
HOS 255 Hospitality HR Management	3
HPR 208 Advanced Medical Terminology	2
HWE 121 Wilderness First Aid	2
HWE 129 Wilderness First Responder	4
IND 213 IND Portfolio Presentations	3
MAT 045 Compress Pre Alg w/Basic Math	4
MGD 203 Design and Concept	3
PHI 142 New Testament	3
PHI 220 Philosophy-Death & Dying: AH3	3
SOC 240 US Cults Extremist & Rel Mvmts	3

Courses Deleted

<i>COURSENUMBER&NAME</i>	<i>CREDITS</i>
CAD 231 Land Desktop	3
COM 100 Workplace Communication	1
COM 202 Communic &Teamwork for Industry	3
CRJ 126 Patrol Procedures	3
CRJ 127 Crime Scene Investigations	3
CSC 151Advanced Visual Basic	3

<i>COURSENUMBER&NAME</i>	<i>CREDITS</i>
CSC 145 Program fundamentals	3
ECE 163 Fac. Functional Skills for Comm.	2
ECE 162 Tran for Handicapped Adolescents	1
EMS 125 EMT Basics	9
PED 105 Basketball	1
PED 106 Tennis	1
PED 118 Stationary Group Cycle	1
PED 119 Fit Circuit Training	1
PED 125 Bowling	1
PED 127 Introduction to Flyfishing	1
PED 131 Nordic Skiing	1
PED 145 Pilates	1
PED 157 Basic Mountaineering	3
PED 162 Map & Compass for Outdoor Person	3
PED 163 Orienteering Routefinding	2
PED 164 Stretch & Relax	1
PED 165 Wilderness Survival	3
PED 226 Fitness Walking	1
PER 152 Avalanche Safety	2
PER 153 Whitewater Rafting Guide	2
PER 231 Sport Exercise Injury Mgmt	2
PHY 101 Basic Physics	4
MTE 210 Networks and Control Systems	3
MTE 220 Manufacturing Business & Economics	3

Course Number, Course Name, & Credit Changes Since Our Last Catalog

Please see Course Offerings, section for complete course descriptions, contact hours and prerequisites.

Name, Number and Credit Changes

<i>OLD COURSENAME / #</i>	<i>CREDITS</i>	<i>NEW COURSENAME / #</i>	<i>CREDITS</i>
ENT 105 Safety for Manufacturing Environments	1	MTE 105 Safety Manufacturing Environments	1
ENT 106 Print Reading Manufacturing	3	MTE 106 Print Reading Manufacturing	3
ENT 110 Metrology	3	MTE 130 Metrology	3
ENT 120 Statistical Process Control	2	MTE 125 Statistical Process Control	3
ENT 138 Machine Tools	3	MAC 138 Machine Tools	3
ENT 143 Survey Drafting	3	EGT 143 Civil/Survey Drafting I	3
ENT 238 Industrial Fluid Power Controls	3	MTE 238 Fluid Power Control	3
GEY 121 Historical Geology w/Lab: SCI	4	GEY 112 Historical Geology w/Lab: SCI	4
HHP 205 Herbology	1	HHP 111 Herbology	1
HHP 263 Creating a Holistic Bus. Practice	0.5	HHP 263 Creating a Holistic Bus. Practice	2
PED 100 Beginning Golf	1	PED 202 Golf I	1
PED 102 Volleyball	1	PED 230 Volleyball	1
PED 112 Condition. Lab	1	PED 101 Condition. Lab	1

2013-2014 CATALOG

PED 114 Walking & Jogging	1	PED 151 Walking & Jogging	1
PED 115 Body Sculpt & Toning	1	PED 140 Body Sculpt & Toning	1
PED 116 Weight Training	1	PED 102 Weight Training I	1
PED 117 Cross Training	1	PED 104 Cross Training	1
PED 124 Mountain Biking	1	OUT 126 Mountain Biking	1
PED 129 Scuba Diving	1	OUT 201 Scuba Diving	1
PED 132 Snowshoeing	1	OUT 151 Showshoeing	1
PED 136 Adv. Weight Training	2	PED 103 Weight Training II	2
PED 143 Tai Chi I	1	PED 161 Tai Chi I	1
PED 146 Martial Arts	1	PED 163 Martial Arts	1
PED 147 Yoga	1	PED 143 Yoga I	1
PED 148 Yoga II	1	PED 144 Yoga II	1
PED 150 Rock Climbing I	2	OUT 131 Rock Climbing I	2
PED 151 Rock Climb II	2	OUT 132 Rock Climb II	2
PED 153 Hiking	1	OUT 142 Hiking	1
PED 154 Backpacking	2	OUT 143 Backpacking	2
PER 113 Intro to Physical Ed & Sport	2	HPE 100 Intro to Physical Ed & Sport	2
PER 232 Athletic Injuries	3	HPE 231 Care/Prevent Athletic Injuries	3
PER 252 Prin of Outdoor Rec	3	REC 210 Principles of Outdoor Rec	3
TEC 201 Engineering Materials	3	EGT 201 Engineering Materials	3
TEC 205 Geometric Dimension/ Tolerance	3	EGT 205 Geometric Dimension/ Tolerance	3

Faculty and Staff

No institution could gain a reputation for excellence without the hard work of many dedicated people striving to fulfill that institution's mission.

In this section we list many of the people responsible for Front Range Community College's reputation for excellence.

We are grateful for the guidance of the State Board for Colorado Community Colleges and Occupational Education and our Area Advisory Council.

We also want to recognize the dedication of our faculty and our administrative and classified staff. Because of space considerations we are able to list only administrators and permanent faculty here, but the task we have set for ourselves — ensuring your success as a student at Front Range Community College — is one that involves every employee.

State Board for Colorado Community Colleges & Occupational Education

Appointed Members:

Dr. John Trefny, Chair
7th Congressional District (U)

Mr. Rich Martinez, Vice Chair
6th Congressional District (U)

Ms. Maury Dobbie,
2nd Congressional District (R)

Mr. Jim Johnson
5th Congressional District (R)

Ms. Bernadette Marquez
At-Large (D)

Mr. Russ Meyer
4th Congressional District (D)

Ms. Theresa Pena
At-Large (D)

Mr. Ken Weil
1st Congressional District (D)

Ms. Jean White
3rd Congressional District (R)

Non-Voting Members:

Ms. Stephanie Irwin
SFAC Representative

Ms. Ryan Manzanares
Student Representative

Administration

BINARD, Kristina, Associate Vice President, Enrollment Management and Student Success (College Wide). Ph.D., University of Colorado, Denver, 2007; M.S., Colorado State University, 1994; B.S., Colorado State University, 1989

BROWN, Derek, Associate Vice President, Facilities Planning and Management (College Wide). Masters, Colorado University, Denver, 1987

BROWN, Therese, Vice President, Westminster Campus. M.S.,

University of Nebraska, 1985; B.S., University of Nebraska, 1981
CROWE, Charles, Executive Director, Foundation (College Wide). M.S., Southern Wesleyan University, 1997

CURRAN, Linda, Vice President, Boulder County Campus. Ph.D., State University of New York at Binghamton, 1990; M.B.A., State University of New York at Binghamton, 1984; B.A., State University of New York at Binghamton, 1977

DORSEY, Andrew, President (College Wide). M.A., Lesley College, 1993; M.B.A., Harvard Business School, 1985; B.A., Harvard College, 1981

ESPINOZA, Yolanda, Director, Registrar (College Wide). M.A., Colorado State University, 2011; B.A., Regis University, 2005

GOLDSMITH, Carolee, Director, Financial Aid (College Wide). B.S., Fort Hays State University, 2004

GREGORY, Robert, Director, Employee Relations (College Wide). M.A., Michigan State University, 1995; B.A., Michigan State University, 1990

HOGAN, Stacey, Executive Director, Strategic Planning and Resource Development (College Wide). Ph.D., Colorado State University, 2005; M.S., University of Denver, 1997

MAHARAS, Marian, Director, Marketing and Advancement (College Wide). M.A., University of Texas, 1980; B.A., Oklahoma State University, 1972

MCKELVEY, Scott, Director, Facilities (Larimer Campus).

MEESE, Paul, Executive Director, Organizational Development & Human Resources (College Wide). M.A., Michigan State University, 1984

MENEFEE, Jeannine, Director, Information Technology (College Wide). M.B.A., University of Colorado, 1999; M.S., University of Colorado, 1997; B.F.A., University of Iowa, 1972

MORAN, Stephanie, Director, Budget & Business Services (College Wide). M.B.A., Regis University, 2008; B.A., Colorado State University, 1993

O'NEILL, Patrick, Director, Facilities (Westminster Campus). M.A., Wayne State University, 1996; B.A., Wayne State University, 1989

SOBANET, Jennifer, Vice President, Finance and Administration (College Wide). M.B.A., University of Pennsylvania, 1998; B.A., Marshall University, 1993

SQUILLACE, Paul, Controller, Fiscal Services (College Wide). B.S., State University of New York at Oswego, 1988

VELTRI, Sandra, Vice President, Academic/Student Services (College Wide). Ph.D., Colorado State University, 2003

VOSLER, Lynn, Director, Workforce Development (College Wide). B.S., University of Wyoming, 1977

WALLACE, Kim, Director, Institutional Research (College Wide). M.A., University of New Mexico, 1995; B.A., University of New Mexico, 1993

WALTHERS, Bruce, Vice President, Larimer Campus. M.A., Bowling Green State University, 1978; B.A., Colorado State University, 1977

Instruction and Student Services

CALVERT, Linda, Dean of Instruction (Westminster Campus). B.S., University of Phoenix, 2002

DALE, Kimberly, Dean of Instruction (Westminster Campus). Ph.D., Colorado State University, 2012; M.S., University of Colorado, 1998; B.S., Metropolitan State College of Denver, 1988

DONALDSON, Lisa, Dean of Instruction (Larimer Campus). Ph.D., University of New Mexico, 2006; M.A., University of New Mexico, 1995; B.A., University of New Mexico, 1989

GEARY, Mary, Dean of Instruction (Boulder County Campus).

M.A., George Mason University, 1997; B.A., George Mason University, 1994

HARRINGTON, David, Dean of Instruction (Boulder County Campus). Ph.D., Pennsylvania State University, 1993; M.A., Seattle University, 1985; B.A., Washington University, 1983

JAMISON, Matthew, Dean of Instruction (Boulder County Campus). M.A., Mankato State University, 1991; B.S., Cornell College, 1989

MILLER, Laurie, Dean of Instruction (Westminster Campus). M.A., Lesley University, 1995; B.S., Miami University, 1979

PELLISH, Catherine, Dean of Instruction (Westminster Campus). M.S., University of Colorado, 1997; B.S., Marquette University, 1985

SCHWARTZ, Jana, Dean of Student Services (Larimer Campus). Ph.D., University of Northern Colorado, 2009

STEIN, Carla, Dean of Student Services (Boulder County Campus). M.A., University of Denver, 1984; B.A., College of Santa Fe, 1981

TASTAD, Renee, Dean of Student Services (Westminster Campus). M.A., University of Colorado, 2005; B.A., Jamestown College, 1994

UNNITHAN, Shashikala, Dean of Instruction (Larimer Campus). Ph.D., University of Nebraska, 1985; M.B.A., Colorado State University, 1994; M.S., Indian Institute of Technology, New Delhi, India, 1980

VERCAUTEREN, Tammy, Dean of Online Learning (College Wide). M.A./M.B.A., University of Colorado, 2000; B.A./B.F.A., Colorado State University, 1991

Faculty

ALEJOS, CARLA, Development Mathematics. M.A., University of Northern Colorado, 2004; B.A., University of Colorado, 1990

ALTMAN, Mardie, Animal Laboratory Technology. A.A.S., Front Range Community College, 1996; B.S., Colorado State University, 1975

BACHELER, Daniel, Horticulture. B.S., Michigan State University, 2000

BACHMAN, Marty, Nursing. Ph.D., Colorado State University, 1998; M.S., University of Colorado, 1985; B.S., University of Northern Colorado, 1980

BAILEY, Tamara, Nursing. M.S.N., University of Colorado, 2001; AD-RN Community College of Denver, 1976

BAILEY, Wendy, Clean Energy Technology. B.S., Purdue University, 1993

BARBER, Michael, English. M.F.A., Naropa University, 2004; B.A., University of Richmond, 1990

BARBUR, John, Biology. M.S., Portland State University, 1996; B.S., Portland State University, 1992; A.S., Mt. Hood Community College, 1982

BARTH, Richard, Chemistry. Ph.D., University of Arizona, 1974; M.S., Colorado State University, 1970; B.S., Michigan State University, 1966

BAUER, Elizabeth, Veterinary Technology Sciences. D.V.M., Colorado State University, 1997; M.S., University of Arizona, 1985; B.A., Colorado College, 1980

BEAL, Peter, Art History/Humanities. M.A., University of Colorado, 1998; B.A., Bowdoin College, 1987

BEARD, Jane, Nursing. B.S., Creighton University College of Nursing, 1980

BEAVEN, Herb, Welding. M.A., University of Phoenix, 2005

BECKLEY, Sheila, Culinary Arts. B.S., University of Philippines, 1998

BELT, Soley, Architectural & Landscape Design. M.L.A., University of Georgia, 1999; B.S., University of Colorado, 1995

BENESH-WILLIAMS, Joyce, Manufacturing Technology

BENNANI, Farah, Biology. Ph.D., IBN TOFAIL University, 2000; B.S., Mohamed V University, B.S., University of Philippine, 1998

BERMAN, Brandon, Multimedia Graphic Design. M.A., Center for Humanistic Studies, 1994; B.A., University of New Mexico, 1992

BHATTARAI, Niroj, Economics. M.A., San Diego State University, 2004; B.A., Hiram College, 2002

BLIGH, Diane, Nursing. M.S., University of Northern Colorado, 1996; B.S., Metropolitan State College of Denver, 1993; A.A.S., Front Range Community College, 1990

BLUETT, Nadine, Mathematics. M.S., Portland State University, 2001; B.A., Lewis and Clark College, 1998

BOGGS, Keith, Business. M.A., University of Denver, 1969; B.A., University of Denver, 1967

BORG, Jeffrey, Political Science. M.Div., University of Denver, 1996; M.Div., Pacific School of Religion, 1988; B.A., Grinnell College, 1983

BRENKERT, Joseph, Mathematics. B.A., University of Michigan, 1997; M.A., Portland State University, 2005

BRINKMANN, Jennifer, Mathematics. M.S., California State University-Long Beach, 2008; B.S., California State University-Long Beach, 2006

BROKAW, Lydia, Art. M.F.A., University of South Florida, 1995; B.A., Metropolitan State College of Denver, 1981

BROWN, Louise, Biology. M.S., Texas Christian University, 1980; B.S., Texas Christian University, 1978

BYER, Beverly, Psychology. M.A., University of Colorado, 1988; B.S., Colorado State University, 1986

CALDWELL, Andrew, Astronomy. Ph.D., North Carolina State University, 1986

CAMPBELL, Marissa, English. M.F.A., Old Dominion University, 2002; B.A., Morehead State University, 1999

CARRASQUEL, Miriam, Spanish/ESL. M.A., University of Kansas, 1990; B.A., Instituto Universitario Pedagógico de Caracas, 1986

CASTELLON, Michael, Geography. Ph.D., University of Wisconsin, 1996; M.S., University of Wisconsin, 1992; B.A., Colgate University, 1985

CASTEN, Nancy, Mathematics. M.S., Colorado State University, 1991; B.S., Rockford College, 1989; A.S., Rock Valley College, 1986

CASTRO, Liliana, Spanish. Ph.D., Colorado State University, 2011; M.A., Colorado State University, 1993; B.A., Universidad Nacional de Cuyo, Argentina, 1979

CHOUN, James, Biology. M.A., University of California Santa Barbara, 1977; B.A., University of Colorado, 1973

CHRISTENSEN, Lindsey, Holistic Health Prof. M.Ed., National-Louis University, 2005; B.A., Indiana University Bloomington, 2003

COCKERHAM, Bryan, Mathematics. M.Ed., Texas State University-San Marcos, 2007; B.S., Texas State University-San Marcos, 2005

COLE, Kelli, Developmental English. M.A., University of London, 2005; B.A., University of Colorado, 2001

COLLINS, Joseph, Astronomy/Physics. Ph.D., University of New Mexico, 2001; B.S., University of North Carolina, 1993

COMPTON, Lisa, Architectural Technology. B.A., Arizona State University, 1979

COOMBS, Abel, Business. J.D., Howard University, 1998;

FRONT RANGE COMMUNITY COLLEGE

- M.B.A., Pace University, 1988; B.A., Skidmore College, 1984
- COSTA, Syndra**, Nursing. M.S., Regis University, 2012; B.S., Regis University, 2004
- COSTE, Michael**, Philosophy. M.A., University of California, 1987; B.A., Washington and Lee University, 1982
- CRAINE, Donna**, English. M.A., University of Wyoming, 1980; B.A., University of Wyoming, 1978
- CRAVEN, Deborah**, Multimedia Graphic Design. B.A., Colorado State University, 1993
- CROSS, John**, Art. M.F.A., Fontbonne University, 1999; B.A., Southern Illinois University Edwardsville, 1996
- CRYAN, Gary**, Automotive Service Technology. B.S., State University of New York, 1974; A.A.S., State University of New York, 1972
- CUMMINGS, Charles**, Philosophy. M.T., Dallas Theological Seminary, 1994; B.A., University of Texas, 1987
- DANANAY, Lynn**, Nursing. M.S.N., University of Northern Colorado, 2008; B.S.N., University of Northern Colorado, 1996
- DANNAHOWER, Heather**, Forestry/Wildlife. B.S., Kansas State University, 2002
- DAUGHERTY, Ray**, Landscape Horticulture. B.S., Colorado State University, 1988
- DAVIE, Teresina**, Hospitality. M.S., Old Dominion University, 1999; B.S., Old Dominion University, 1996
- DAVIS, Joseph**, Automotive Service Technology. A.A.S., Des Moines Area Community College, 1973
- DEBELL, Jannette**, Dental Assisting. B.S., Colorado State University, 1993
- DECOSMO, Andrea**, Mathematics. M.Ed., University of Missouri-Columbia, 1993; B.A., Saint Mary's College, 1991
- DELGADILLO, Erica**, Communications. M.A., San Diego State University, 2002; B.S., San Diego State University, 1999
- DEROCHE, Andrew**, History. Ph.D., University of Colorado, 1997; M.A., University of Maine, 1993; B.A., Princeton University, 1989
- DEUTSCH, Robert**, Sociology. M.A., University of Colorado, 1973; B.A., State University College, 1971
- DEUTSCHBEIN, Cynthia**, Accounting. M.S., University of Colorado, 1991; B.S., University of Colorado, 1988
- DINWIDDIE, Alan**, Mathematics. M.A., University of Nebraska, 1994; M.S., Pensacola Christian College, 1982; B.S., Kearney State College, 1979
- DODARO, Kathleen**, Business. Ph.D., Capella University, 2006
- DUARTE, Victor**, Nursing. M.S.N., University of Northern Colorado, 2007; B.S., University of Northern Colorado, 1997
- DUDLEY, Maryanne**, Nursing. M.S.N., University of Phoenix, 1996; B.S.N., University of Phoenix, 2002
- DUKSTEIN, Karl**, Media Arts. M.F.A., Southern Illinois University, 1990; B.A., Grinnell College, 1983
- DVORSKY, Christy**, Welding. A.S.S., Front Range Community College, 2012
- EDWARDS, Nicola**, Dental Assisting. B.S., Colorado State University, 2000
- EISELE, Victoria**, Computer Science/Computer Information Systems. M.S., American University, 1986; B.A., Bethany College, 1982
- EISENLAU, Jennifer**, English. Ph.D., University of Denver, 1997; M.A., University of Northern Colorado, 1991; B.A., University of Vermont, 1987
- ELLER, Mark**, Physical Education. M.S., Arizona State University, 1992; B.A., University of Northern Iowa, 1982
- ERLICH, Stewart**, Developmental English. M.Ed., Rutgers State University of New Jersey, 2000; B.A., Rutgers State University of New Jersey, 1995
- FALTINSON, Susan**, ASL/IPP. M.S., University of Wisconsin-Madison, 1990; B.S., University of Wisconsin-Madison, 1988
- FEINHANDLER, Ian**, Geography Information Systems. Ph.D., University of Colorado-Boulder, 2006; M.A., University of Colorado-Boulder, 2003; M.A., University of Colorado-Boulder, 1995; B.A., Trinity College, 1988
- FLOYD, Kenneth**, Clean Energy Technology. M.S., Colorado State University, 2002; B.S., Colorado State University, 1988
- FOSTER, William**, English. M.A., Colorado State University, 2004; B.A., Colorado State University, 1997
- FREDRICKSON, Lana**, Mathematics. M. A., University of Northern Colorado, 1989; B.A., College of Southern Utah, 1973
- GAITONDE, Deepali**, Pharmacy Technician. Pharm.D., University of Colorado, 2008; M.S., Duquesne University, 1996; B. Pharm.Sci., University of Bombay, 1993
- GARBER, Steven**, Chemistry. Ph.D., Boston College, 2004; B.A., California Polytechnic State University, San Luis Obispo, 1997
- GARRY, Kevin**, Music. D.M.A., University of Colorado, 2000; M.A., Washington State University, 1994; B.A., University of Washington, 1991; B.G.S., University of Iowa, 1977
- GEIST, Monica**, Mathematics. Ph.D., University of Northern Colorado, 2008; M.S., University of Colorado, 1996; B.S., Colorado State University, 1984
- GILANYI, Robert**, Computer Science. M.S., Mammoth University; 1991; B.A., Trenton State College, 1973
- GILLILAND, Mary (Claire)**, Nursing. M.S.N., University of Northern Colorado, 2003; B.S., University of Florida, 1999
- GLUSTROM, Merrill**, Remedial English. Ph.D., University of Wisconsin, 1981; M.S., University of Wisconsin, 1975; B.A., University of Wisconsin, 1972
- GOMEZ, Fortino**, English. M.F.A., Naropa University, 2007; B.A., Arizona State University at the Tempe Campus, 1997
- GONZALES, Martha**, Sociology. M.A., University of Colorado, 1993; B.A., University of Colorado, 1988; B.S., University of Colorado, 1970
- GRAHAM, Patricia**, Nurse Aide Program Director. M.S.N., University of Colorado, 2008; B.S.N., University of Colorado, 2006; A.A.S., Front Range Community College, 2000
- GRIM, Mary**, History. M.A., University of Colorado, 2007; B.A., Virginia Tech, 1997
- GUTERMAN, Lori**, Multimedia Graphic Design. Diploma, Art Institute of Colorado, 1995; B.A., University of Miami, 1982
- GUTHRIE, Brad**, Advanced Technology (HVAC). A.A.S., Community College of Denver, 1988
- HAHN, James**, Architectural and Construction Technology. B.S., Millersville University of Pennsylvania, 1983
- HALWARD, Tracy**, Biology. Ph.D., North Carolina State University, 1990; M.S., North Carolina State University, 1985; B.S., University of Florida, 1983
- HANAK, Kristin**, Nursing. M.S.N., University of California, 1997; B.S.N., University of California, 1995
- HARDY, Douglas**, Automotive Technology.
- HEIDEMAN, Anthony**, History. M.A., University of Colorado, 1998; B.A., University of Colorado, 1983
- HEUERMAN, Joshua**, Welding.
- HEUSTON, Christin**, Dietetic Tech. M.A., University of California, Los Angeles, 1991; B.A., Colorado State University, 1988
- HILL, John**, Humanities/Theatre. M.F.A., University of

- Nebraska-Lincoln, 1982; B.A., Loretto Heights College, 1980
- HILL, Mary**, Sociology. Ph.D., University of Illinois, 1977; M.A., University of Illinois, 1974; B.A., Washington State University, 1971
- HOKE, Cheryl**, Chemistry. M.S., Colorado State University, 1984; B.A., Dana College, 1978
- HUFF, Alyson**, Philosophy. M.A., Colorado State University, 2005; B.A., St Cloud State University, 2002
- HUIBREGTSE, Melanie**, Medical Careers., M.S., Colorado State University, 1986
- HUNTLEY, BT**, History. M.Ph., New York University, 1988; M.A., New York University, 1984; B.A., Drake University, 1981
- IHLENFELDT, Susan**, Nursing. M.S.N., University of Colorado, 1988; B.S., University of Wisconsin, 1978
- IRWIN, Stephanie**, Anatomy and Physiology. M.S., Colorado State University, 1992; B.A., University of Colorado, 1987
- JACOBSON, Anne Marie**, Early Childhood Education, M.ED., Northern Arizona University, 2011
- JENNINGS, Andrea**, Emergency Medical Services. B.S., University of Northern Colorado, 2005; B.A., Brigham Young University, 1991
- JENSEN, Margaret**, Nursing Assistant. B.S.N., Fitchburg State College, 1998
- JOHNSON, Mark**, Emergency Medical Services. B.S., Colorado State University, 1990
- JORDAN-HELSE, Anna**, Nursing. M.S., Regis University, 2008
- KEENAN, Catlyn**, Philosophy. M.A., University of Colorado, 2001; B.A., Hendrix College, 1997
- KELLOGG, Joseph**, Computer Information Systems. M.S., University of Colorado, 1992; M.I.M., American Graduate School of Management, 1989; B.A., University of Colorado, 1987
- LARABEE, Patrick**, Biology. Ph.D., Logan College of Chiropractic, 1996; B.S., Logan College of Chiropractic, 1995
- LEE, Jennifer**, Natural Resources. M.S., Colorado State University, 2003; B.A., University of California-Santa Barbara, 1994
- LEE, Shawna**, Computer Assisted Drafting. A.A.S., Front Range Community College, 2004
- LEFF, Aaron**, Developmental English. M.A., Colorado State University, 2007
- LEVINE, Martha**, Nursing. M.S., Colorado University, 2010; B.S.N., Berea College, 1995
- LEWANDOWSKI, April**, English/Development English. M.A., Western Carolina University, 1998; B.A., Asbury College, 1995
- LEY, Keith**, CIS/CNG. M.S., Montclair State University, 2007; B.S., The State University of New Jersey-Rutgers, 1987
- LOMBARD, Gwen**, Veterinary Technology. M.S., Colorado State University, 1993; D.V.M., Colorado State University, 1990; B.S., Colorado State University, 1986
- LONG, Jeffrey**, History. M.A., Northern Arizona University, 2005; History, B.A., Western Michigan University, 1994
- LONGSHORE, Mark**, Nursing. M.S.N., Northern Kentucky University, 2002; B.S.N., University of Cincinnati, 1996
- LOSEKE, Jennifer**, Mathematics. M.A., National University, 2002; B.S., San Diego State University, 1997
- LOY, Ivan**, Mathematics. M.S., University of Wyoming, 1998; B.S., University of Nebraska, 1992
- MAC, Christine**, Developmental Mathematics. M.A., University of Northern Colorado, 2009; Mathematics. B.S., Eastern Michigan University, 2005
- MAHONEY, Jessica**, Psychology. M.A., Denver Seminary, 2005;
- MANN, Amy**, English. M.A., University of Denver, 2001; B.A., University of Northern Colorado, 1994
- MANUEL, Laura**, Psychology and Criminal Justice. Ph.D., University of Northern Colorado, 2000; M.A., University of Northern Colorado, 1991; B.A., University of Michigan, 1973
- MARTIN, Debra**, Mathematics. M.S., University of Nebraska, 2000; B.S., University of Nebraska, 1993
- MASON, Beverly**, Pre-Speech Pathology/Audiology. B.S., Middle Tennessee State University, 1975
- MATTSON, Mary**, Chemistry. Ph.D., University of California, 1988; M.S., University of California, 1986; B.A., Barat College, 1982
- MCFARLANE, Kevin**, Accounting. D.B.A., 1994; M.B.A., University of Connecticut, 1978
- MCGRATH, Susan**, Biology. M.S., Colorado State University, 2007; B.S., Colorado State University, 2001
- MCMILLAN, Angelica**, Spanish. M.A., University of New Mexico, 1996; B.A., University of California, 1993
- MEDEIROS, Michelle**, English/Reading/Writing & Academic Skills Center. M.A., Indiana University, 2001; B.A., University of Oregon, 1999
- MELARA, Jose Gustavo**, Spanish. M.A., University of Colorado, 1993; B.A., Queens University, 1991
- MENDT, Kathy**, English. M.A., University of Colorado, 1996; B.A., University of Colorado, 1985
- MENNEN, Kathleen**, English. M.A., Grand Valley State University, 1998; B.A., Ball State University, 1984
- MENZIES, April**, Career Education. Ph.D., Kansas State University, 2001; M.S., Kansas State University, 1992; B.S., Kansas State University, 1991; A.A., Hutchinson Community College, 1989
- MILLER, Max**, Geography. M.S., University of Wyoming, 2009; B.S., University of Wyoming, 2005
- MINORS, John**, Astronomy. Ph.D., Columbia Pacific University, 1996; M.A., Columbia Pacific University, 1992; B.M.E., University of Wisconsin, 1971
- MITCHELL, Kerri**, English. M.A., Colorado State University, 2001; B.A., Fredonia State University, 1998
- MOBLEY-TANAKA, Jeannette**, Anthropology. Ph.D., Arizona State University, 2005; M.A., University of Colorado 1990; B.A., University of Colorado, 1987
- MONKS, Kenneth**, Mathematics. Ph.D., Colorado State University, 2012; M.S., Colorado State University, 2008
- MOORE, Catherine**, Medical Office Technology; A.A.S., Front Range Community College, 2007
- MORRISON, Spencer**, Psychology. Ph.D., University of Colorado, 1995; M.S., Villanova University, 1992; B.S., Wake Forest University, 1986
- MOZER, Clark**, Clean Energy Technology. M.S., Montana State University, 1974; B.S., Montana State University 1972
- MULLINS, Kathleen**, English. M.A., Western Washington University, 2006
- MURPHY, Thora Jo**, Early Childhood Education. M.A., University of Colorado, 1992; B.S., Central Missouri State University, 1976
- MUSSER, Gregg**, Automotive Service Technology. Certificate Auto/Mechanics Technician, 2008
- NYE, Bruce**, History. Ph.D., University of Illinois, 2009
- OBARSKI, Ann**, Librarian. M.A., University of Denver, 1970; B.A., University of Denver, 1969
- OLIVER, Blair**, English. Ph.D., University of Denver, 1996; M.F.A., University of Montana, 1991; B.A., Dickinson College,

FRONT RANGE COMMUNITY COLLEGE

1988

ORTMAN, Joan, Nursing. M.S., Saint Louis University, 1986; B.A., University of Illinois-Springfield, 1978

PATTERSON, Barbara, Forestry/Wildlife. Ph.D., Colorado State University, 2009; B.S., University of Wisconsin, 1981

PENDLETON, Samuel, EMS Clinical Coordinator. B.S., Maranatha Baptist Bible College, 2000

PERRY, Merry, Medical Careers. LPN, State of Nebraska, 1971

PIPPIN-MANDLEY, John, Psychology. M.A., Northern Arizona University, 2000; B.A., Metropolitan State College of Denver, 1994

PLATT, David, Mathematics. Ph.D., University of Texas, 1990; M.S., University of South Carolina, 1987; M.S., Colorado State University, 1981; B.A., Western Connecticut State College, 1975

POOLER, James, Automotive Technology. B.S., University of New Mexico, 1997

QUINTANA, Rita, Mathematics. M.A., University of Colorado, 1991; B.A., University of Colorado, 1986

RANALLO, Pamela, Spanish. M.A., State University of New York, 1992; B.A., State University of New York, 1990

RASKE, Tara, Animal Technology. B.A., Fort Lewis College, 1991

REINKING, Cory, History. M.A., University of California, Riverside, 2008

RENDAL, Camille, Art. M.F.A., New Mexico State University, 1996; B.F.A., Otis Parsons, 1987

REYNOLDS, Stacey, Developmental Mathematics. M.S., Utah State University, 2009; B.S., Slippery Rock University of Pennsylvania, 2007

RICHARDS, Margaret, Anatomy & Physiology. Ph.D., University of Illinois, 2006; Biological Sciences, B.A., University of Colorado, 1998

RIEDL, Ann, Biology. Ph.D., Case Western University, 1994; B.S., University of Notre Dame, 1985

ROCKS, Lindsay, Astronomy. Ph.D., University of Wisconsin, 2008; M.A., University of Wisconsin-Madison, 2003

ROGERS, Gerald, Paralegal. J.D., University of Denver, 1988; B.A., University of Northern Colorado, 1984

ROMERO, Christopher, Biology. Ph.D., Colorado State University, 2009, M.S., University of Denver, 1991; B.A., University of Denver, 1989

ROMERO, Claudia, Computer Aided Drafting. M.Ed., Colorado State University, 2006; B.S., Colorado State University, 1989; A.A., Aims Community College, 1987

ROSENBERG, Mernie, Early Childhood Education. M.Ed., University of Lesley, 2000

ROSTAD, Teresa, Nursing. M.S.N., Walden University, 2011; B.S.N., South Dakota State University, 2002

RUBERTO, Michael, Multimedia Graphic Design. B.F.A., Fredonia, 2003

RUDD, Michael, Automotive Technology. A.A., Aims Community College, 1991

RUIZ, Janet, Nursing. M.S.N., North Park University, 2002; B.S., University of Illinois, 1998

RUSSELL, Gregory, Emergency Medical Services. Certificate for Paramedic Education, 1998

RUSSELL, Randy, Development/Transfer English. M.A., University of Colorado, 1989; B.A., Metropolitan State College of Denver, 1981

SALAHUB, Eric, Philosophy. M.A., Colorado State University, 1994; B.S., Whitman College, 1990

SCHERNECKE, Christi, Nursing. M.S., Regis University, 2009

SCHMIDT, Kimberly, Veterinary Technician. A.A.S., Bel-Rea Institute Veterinary Technician Training, 2000

SEID, Jaren, Economics. M.A., San Diego State University, 2009; B.A., California State University-San Marcos, 2006

SEVY, Suzanne, Nurse Aide. B.S.N., University of Colorado, 1988

SHABRAM, Patrick, Geography. M.A., San Jose State University, 1998; B.A., University of Colorado, 1990

SHAEFER, Dana, Mathematics. M.E., University of Colorado, 1994; B.S., University of Colorado, 1991

SHEAMAN, Todd, Emergency Medical Services. A.G.S., Front Range Community College, 2006

SHELTON, Paul, Business. Ph.D., Colorado State University, 2008; M.B.A., Azusa Pacific University, 2003; B.S.B.A., University of Phoenix, 2001

SHEPTON, Kim, Nursing. M.S.N., Regis University 2007; B.S.N., University of Northern Colorado, 1980

SHERRICK, Laura, Psychology. Ph.D., Iowa State University, 1990; M.S., Iowa State University, 1988; B.A., DePauw University, 1984

SIEMS, Mary, Mathematics. M.S., Oakland University, 1998; M.S., University of Minnesota, 1985; B.S., Saint Mary's College, Notre Dame, Indiana, 1983

SKILES, David, Geography Information Systems. M.A., Regis University, 2008; B.S.E.E., University of Colorado, 1981

SMITH, Barbara, Nursing. M.S.N., University of Northern Colorado, 1994; B.S.N., University of Northern Colorado, 1991

SMITH, Caroline, Pharmacy Technician. B.S., James Madison University, 1989

SMITH, Heidi, Anatomy & Physiology/Microbiology. M.S., Bowling Green State University, 2003; B.S. Taylor University, 1996

SMITH, Lauren, Accounting. M.A., Regis University, 2008; B.S., University of Wisconsin-Superior, 1988

SMITH, Michael, Astronomy. M.A., University of Wyoming, 1999; M.A., University of Northern Colorado, 1998; B.S., University of Wyoming, 1994; B.S., University of Wyoming, 1993; A.A., Arts/Science, Laramie County Community College, 1989

STANSBURY, Annita, Nurse Aid. Ph.D., Clayton College of Natural Health, 2008; M.S.N., University of Northern Colorado, 2000; B.S., University of Northern Colorado, 1998; A.A.S., Front Range Community College, 1994

STEARNS, Kristine, Criminal Justice. M.A., University of Northern Colorado, 1991; B.A., University of Northern Colorado, 1988

STENCEL, Judy, Computer Information Systems/Business. M.A., University of Northern Colorado, 1998; B.A., University of Northern Colorado, 1983

STEVENS, James, Health and Wellness Education. M.S., Colorado State University, 2003

STILWELL, Matthew, Development English. M.A., Colorado State University, 2000; B.A., University of Wisconsin, 1991

STITES, Tiffany, Business. M.S., University of Missouri-Columbia, 2004; B.S., University of Missouri-Columbia, 2003

STOW, Brandon, Communications. M.A., Texas Tech University, 2005; B.S., West Texas A&M University, 2002

STOW, Chelsea, Speech. M.A., Texas Tech University, 2005; B.A., West Texas A&M University, 2003

STRANG, Heidi, Art History. Ph.D., University of Colorado Denver, 2006

SULLIVAN, John, English. Ph.D., National University of Ireland, 1998; M.A., National University of Ireland, 1988; B.S., Columbia

College, New York, 1986

SUN, Jingxian, Chemistry. Ph.D., University of Rhode Island, 1998

SZWANKOWSKI, Marcus, Mathematics. M.S., Northern Arizona University, 2005; B.S., University of Nevada, 2001

TANG, Yong, Biology. Ph.D., Dalhousie University, Halifax, 1989; M.S., Dalhousie University, Halifax, 1985; B.S. (Hon), Xiamen University, 1985

THIELKE, Alison, Early Childhood Education. M.A., University of Colorado-Boulder, 2007; B.A., Pacific Oaks College, 2002

THOMPSON, Chera, Mathematics. M.A., University of Missouri-Columbia, 1987; B.A., Southeast Missouri State University, 1982

THROGMORTON, Debra, Music. M.M., University of Northern Colorado, 1981; B.M., University of Wyoming, 1981

TOFOLLI, Todd (Reno), Automotive Technology. A.A.S., Front Range Community College, 2000; B.A., University of Minnesota, 1993

TRUMMER, Kathleen, Nursing. M.S.N., University of Colorado, 1992; B.S.N., Viterbo College, 1987

VAIDYA, Anjali, Microbiology. Ph.D., Indian Agricultural Research Institute, 1987

VAN, Shawna, English Developmental Writing/Composition. M.A., Colorado State University, 1998; B.A., University of Northern Colorado, 1993

VAN DE KAMP, Jennifer, Biology. Ph.D., University of Colorado, 1991; B.S., University of Colorado 1984

VERNON, James, Business. Ph.D., Pardee Rand, 1996; M.Phil., Pardee Rand, 1986; B.A., Brown University, 1982

VILLIERS, Susan, Nursing. M.S., University of California, 1992; B.S., Seattle University, 1975

VINCENT, Nowell, Interior Design. B.A., Colorado State University, 2007; Performing Arts. B.A., Colorado State University, 1998

VOSS, James, Mathematics. M.A., San Francisco State University, 1996; B.A., University of Colorado, 1992

VOSS, Julie, Developmental English. M.A., San Francisco State University, 1999; B.A., San Francisco State University, 1995

WAGNER, Richard, Early Childhood Education. M.A., Northern Arizona University, 1984; B.S., University of Wisconsin, 1976

WAGNER, Sharon, Computer Information Systems. M.B.A., University of Houston, Victoria, 1984; B.A., University of Houston-Main Campus, 1981

WALLERT, Christy, Mathematics. M.A., Rutgers University-Camden, 2007; B.A., University of Delaware, 2000

WALSH, Jason, Welding/ IDT AutoCad. A.A., Front Range Community College, 2003

WALTMAN, Diane, Horticulture. M.S., Colorado State University, 2000; B.S., Colorado State University, 1978

WATT, Charles, Automotive Technology. B.S., Southern Illinois University, 1975

WEBB, Karen, Nursing. B.S.N., Saint Cloud State University, 2004; B.S., Saint Cloud State University, 1999

WENTE, Clara, Physics. M.A., University of Colorado, 1994; B.S., University of Puget Sound, 1991

WERNER, Erich, English. Ph.D., University of North Carolina, Chapel Hill, 2008; M.A., University of Virginia-Main Campus, 2006; B.A., Boson College, 2003

WEST, Misty, Emergency Medical Services. B.A., Metropolitan State College of Denver, 2003

WEYANT, Ruth, Nursing. M.S., Nebraska Methodist College, 1992; B.S., Nebraska Methodist College, 1990

WILLIAMS, Kari, Medical Office Technology. D.R., Life University, 1998; B.S., Colorado State University, 1994; A.A., Northeastern Junior College, 1991

WILSON, Matthew, Economics. Ph.D., University of Texas, 2000; M.A., University of Colorado, 1991; BA, Fort Lewis College

WINING, Laura, Nursing. B.S., University of Northern Colorado, 2008

WINNER, Wilson, Physics. M.B.A., Santa Clara University, 2005; M.S., University of California-Santa Barbara, 1980; B.S., University of California-Santa Barbara, 1978

WYGANT Cecilia, History. Ph.D., Texas Tech University, 2007; M.A., Texas Tech University, 2004; B.A., Texas Tech University, 2003

YAMIOLKOSKI, Steven, Mathematics. M.S., University of Colorado – Colorado Springs, 2003; B.A., University of Colorado-Colorado Springs, 2000

YATES, Christopher, Welding.

ZUR NAYBERG, Ayelet, Economics. M.B.A., Tulane University, 2006; B.A., University of Haifa, 1999

Legal Notices

Rights Reserved

The college reserves the right to change any provision or requirement of this catalog, including academic calendar dates, tuition, and fees, pursuant to law, the rules of the State Board for Community Colleges and Occupational Education, or the Colorado Community College and Occupational Educational System, or college policy.

The college reserves the right to cancel any course or program described in this catalog, at any time, without notice, and to change any other aspect of any course or program.

The college reserves the right to require a student to withdraw at any time for health or other reasons, pursuant to appropriate policies and procedures, and to impose sanctions, according to established policy. Any admission based on false statements or documents may be grounds for dismissal and loss of all credit for work that may have been completed.

Student Rights and Responsibilities

Equal Opportunity

Since its beginning in 1968, FRCC has had a policy of nondiscrimination in employment and education. FRCC's Equal Opportunity and commitment to diversity reflects the college's continued commitment to implementing that policy.

The College prohibits and will not tolerate discrimination or harassment that violates federal law, state law, Board Policy 3-120 or Board Policy 4-120. The College does not discriminate on the basis of gender, sex, race, color, age, creed, national or ethnic origin, physical or mental disability, veteran status, pregnancy status, religion or sexual orientation. The College complies with Titles VI and VII of the Civil Rights Act of 1964, the Civil Rights Act of 1991, the Education Amendments of 1972 (Title IX), the Age Discrimination in Employment Act, the Rehabilitation Act of 1973, the Americans with Disabilities Act Amendments Act of 2008, Pregnancy Discrimination Act of 1978, Vietnam Era Veterans Readjustment Assistance Act of 1974; Executive Order 11246, and sections 24-34-301, C.R.S. et seq.

For information regarding civil rights or grievance procedures, contact: Paul M. Meese, FRCC, College-wide, Title IX Compliance/Equal Opportunity Officer and Executive Director, Organizational Development and Human Resources, 303-678-3707, 2190 Miller Drive, Longmont, CO 80501, or paul.meese@frontrange.edu. Grievance procedures for Title IX, Section 504, and ADAAA have been established for students and employees who believe that discrimination has occurred.

Family Education Rights and Privacy

Privacy: Front Range Community College Notification of Rights Under FERPA

The Family Educational Rights and Privacy Act (FERPA) affords students certain rights with respect to their education records. FERPA rights are afforded to students at the time of admission. These rights include:

1) The right to inspect and review the student's education records within 45 days of the date that Front Range Community College receives a request for access. A student must submit to the Admissions and Records Office a

written request that identifies the record(s) the student wishes to inspect. The Registrar will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the Registrar, they shall advise the student of the correct official to whom the request should be addressed.

2) The right to request the amendment of the student's education records that the student believes are inaccurate, misleading, or otherwise in violation of the student's privacy rights. A student who wishes to ask Front Range Community College to amend a record should write the Registrar, who will notify the college official responsible for the record, clearly identify the part of the record the student wants changed, and specify why it should be changed. If the College decides not to amend the record as requested, the College will notify the student in writing of the decision and the student's right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.

3) The right to provide written consent before Front Range Community College discloses personally identifiable information from the student's education records, except to the extent that FERPA authorizes disclosure without consent. One exception which permits disclosure without consent is disclosure to College officials with legitimate educational interests. A College official is a person employed by the College in an administrative, supervisory, academic, research, volunteers, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the College has contracted as its agent to provide a service instead of using college employees or officials (such as an attorney, auditor, or collection agent); a person serving on the College Board; or state and federal agencies, such as the U.S. Department of Veterans Affairs, or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks. FRCC has designated the National Student Clearinghouse as a College official. A College official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibilities for the College. Upon request, the college discloses education records, without a student's consent to officials of another school in which a student seeks or intends to enroll, or after enrollment.

The College may share educational records with parents in the following circumstances: for a student who is dependent under I.R.S. tax code; a student under 21 years old who has violated a law or the school's rules or policies governing alcohol or substance abuse; and when the information is needed to protect the health or safety of the student or other individuals in an emergency. Requests from parents to access student information under the tax code should be sent to the Office of the Registrar.

The Colorado Community College System considers the following to be directory information and Front Range Community College staff may disclose this information, without prior consent, to anyone inquiring in person, by phone, or in writing: student name; major field of study; participation in officially recognized activities and sports; dates of student attendance, part-time or full-time enrollment status; degrees/certificates and awards student has earned; and the most recent educational institution attended by the

student.

All other information contained in student records is considered private and not open to the public without the student's written consent. Students who do not want their directory/public information released to third parties should complete the **Request to Prevent Disclosure of Directory Information** form to suppress directory information; the form is available online, at the Registrar's Office, or at the Office of Admissions and Records, and must be submitted by the first day of the semester.

4) The right to file a complaint with the U.S. Department of Education concerning alleged failures by the College to comply with the requirements of FERPA. The name and address of the Office that administers FERPA is:

Family Policy Compliance Office
U.S. Department of Education
400 Maryland Avenue, SW
Washington, DC 20202-5901

Nondiscrimination Statement

Front Range Community College prohibits and will not tolerate discrimination or harassment that violates federal law, state law, or Board Policy 3-120 or Board Policy 4-120. FRCC does not discriminate on the basis of gender, sex, race, color, age, creed, national or ethnic origin, physical or mental disability, veteran status, pregnancy status, religion or sexual orientation. FRCC complies with Titles VI and VII of the Civil Rights Act of 1964, the Civil Rights Act of 1991, the Education Amendments of 1972 (Title IX), the Age Discrimination in Employment Act, the Rehabilitation Act of 1973, the Americans with Disabilities Act Amendments of 2008 Act, Pregnancy Discrimination Act of 1978, Vietnam Era Veterans Readjustment Assistance Act of 1974; Executive Order 11246, and sections 24-34-301, C.R.S. et seq.

For information regarding civil rights or grievance procedures, contact:

Title IX Compliance/Equal Opportunity Officer
Paul M. Meese
Executive Director, Organizational Development & Human Resources
Boulder County Campus, Room A1332
303-678-3707
paul.meese@frontrange.edu

Nondiscrimination on Basis of Disability

As part of the Rehabilitation Act of 1973, as amended in 1978 (Public Law 93-112), Congress enacted Section 504, which provides that no physically or mentally handicapped person in the United States shall, solely by reason of handicap, be excluded from the participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving federal financial assistance. Subpart B of the regulations, dealing with employment practices, bars discrimination by recipients of federal assistance in recruitment, compensation, hiring, job assignment and classification, and fringe benefits. It also requires employers to make reasonable accommodation to qualified disabled applicants or employees upon request.

FRCC complies fully with the guidelines of Section 504, providing support services to students with documented disabilities, so that they can access a full range of educational

programs. In addition, FRCC complies with the Americans with Disabilities Act of 1990 (ADA), and with the ADA Amendments Act of 2008 (ADAAA), and makes reasonable accommodations, so that people with disabilities may be productively employed at FRCC, as well as participate in educational programs. For further information, contact the Disability Services Office at the Larimer or Westminster Campuses, the Boulder County Campus, or the Brighton Center.

Policy on Exclusionary Orders

FRCC, acting through its President, any Vice President, or Director of Campus Security and Preparedness ("College Representatives") hereby reserves the right to exclude any person not authorized to engage in work, study, or other activities ("Unauthorized Persons") from all or any part of its campuses or facilities to the extent that such person's conduct: (i) materially disrupts, or presents a significant threat of material disruption to FRCC's academic mission; or (ii) constitutes a substantial threat to the safety and well-being of persons lawfully present on any such campuses or in any such facilities. Such reserved right shall be in addition to all rights of FRCC's to exclude persons in connection with the imposition of internal discipline. Additional information can be obtained from the Department of Campus Security and Preparedness.

Campus Security and Preparedness

In compliance with the Crime Awareness and Campus Security Act of 1990, also known as the Jeanne Clery Act, campus crime statistics and information on campus security policies are available to current and potential students. See the current class schedule for the latest information, including the Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics. The complete Annual Security Report can be found on the FRCC website at www.frontrange.edu/About-Us/Campus-Locations/Campus-Security-Report.aspx.

Computer Labs and Computer Viruses

Students should be aware that due to the nature of their use, computers in FRCC's computer labs are susceptible to computer viruses, which could be passed to other computers via files saved on flash drives. FRCC is committed to reducing the virus threat in the labs in many ways, including providing virus-checking software in the labs, continuous upgrades to this software, and procedures for students on its use. This does not ensure that these computers will always be virus-free; as quickly as upgrades are created to deal with viruses, new viruses are being created. Therefore, FRCC cannot be held liable for any loss that may be caused due to a computer virus. The procedures to check for viruses on student work are available in the labs.

To help ensure the security and operations of FRCC's computer network, the connection of personally owned or non-FRCC computers and peripherals to the FRCC computer network is prohibited. For more information on FRCC's computer policy, go to www.cccs.edu/SBCCOE/policies.html and see Electronic Communication Policy.

Wireless Internet access is available on all campuses.

Illegal File Sharing

P2P file sharing can violate copyright laws

Using P2P file-sharing software that copies and distributes

music, videos, software, games, or other copyrighted works without permission of the copyright holder is a violation of US copyright law. If you have P2P file-sharing applications installed on your computer, you may be sharing copyrighted works without even realizing it. Even if you do not intend to engage in illegal activity, installing P2P software on a computer can easily result in you unintentionally sharing files (copyrighted music or even sensitive documents) with other P2P users, and you may then be personally responsible for the legal and financial consequences.

Content owners, such as the recording industry, movie studios, and game and software companies, specifically target unauthorized file sharing on college networks. The Recording Industry Association of America (RIAA) has employed aggressive legal strategies to address unauthorized file sharing. Since September 2003, the RIAA has filed lawsuits against more than 20,000 individuals using P2P software worldwide. Willful copyright infringement can also result in criminal penalties, including imprisonment of up to five years and fines of up to \$250,000 per offense.

You can listen to music and watch entertainment online without running the risks involved with downloading or sharing using networks that operate outside copyright law. This link maintains a listing of known sites that provide free and legal entertainment:
<http://www.educause.edu/legalcontent>.

Summary of Civil and Criminal Penalties for Violation of Federal Copyright Laws

Copyright infringement is the act of exercising, without permission or legal authority, one or more of the exclusive rights granted to the copyright owner under section 106 of the Copyright Act (Title 17 of the United States Code). These rights include the right to reproduce or distribute a copyrighted work. In the file-sharing context, downloading or uploading substantial parts of a copyrighted work without authority constitutes an infringement.

Penalties for copyright infringement include civil and criminal penalties. In general, anyone found liable for civil copyright infringement may be ordered to pay either actual damages or "statutory" damages affixed at not less than \$750 and not more than \$30,000 per work infringed. For "willful" infringement, a court may award up to \$150,000 per work infringed. A court can, in its discretion, also assess costs and attorneys' fees.

For details, see Title 17, United States Code, Sections 504, 505. Willful copyright infringement can also result in criminal penalties, including imprisonment of up to five years and fines of up to \$250,000 per offense.

For more information, please see the web site of the U.S. Copyright Office at www.copyright.gov, especially their FAQ's at www.copyright.gov/help/faq.

Student Right to Know

FRCC provides information about completion and graduation rates on the FRCC website. Information about crimes on campus and campus security programs are published in the class schedule each semester and are available from the Campus Security and Preparedness Office. This is in compliance with the Federal Student Right to Know and Campus Security Act of 1990. Individuals interested in knowing about FRCC's financial status are assured that FRCC is subject to the State's Open Records Act, as an agency of the State of Colorado. The audited financial statements of the

CCCOES System, including those for FRCC, are available to the public in the libraries of the Westminster and Larimer Campuses.

Academic Freedom

FRCC believes that education should help students function well in a dynamic society. To do so, students must gain knowledge and cultivate critical thinking skills. FRCC faculty believes that no restrictions should hamper the spirit of investigation, free inquiry, and open discussion in the classroom. Faculty exercises professional judgment in selecting and interpreting ideas. They have the freedom to choose the methods of instruction, guidance, tutoring, testing, and evaluation to achieve these goals.

Student Code of Conduct

Student Rights, Freedoms, and Responsibilities

In addition to rights extended to members of the FRCC student body, individuals also have rights and freedoms under federal, state and local law. Some of those college-related rights and freedoms include:

Freedom of access to the college and to college facilities, services and programs, in accordance with: The Civil Rights Act of 1964; Title IX, Section 504 of the Rehabilitation Act; Americans with Disabilities Act of 1990; Colorado statutes; and college policies and procedures.

Freedom in the classroom, including the right to:

- Ask questions, discuss any views, provided such activity does not infringe on the rights of others.
- Expect professional conduct from faculty.
- Be informed of the academic standards expected in each course.
- Be evaluated solely on the basis of academic performance.
- Privacy in regard to personal or scholastic information.
- Have access to faculty members during their posted office hours.
- Receive reasonable academic assistance from the institution.

Freedom on campus, including the right to:

- Be free from discrimination or harassment on the basis of sex/gender, race, color, age, creed, national or ethnic origin, physical or mental disability, veteran status, pregnancy status, religion or sexual orientation.
- Expect an environment free of drug and alcohol abuse.
- Discuss and express in an orderly way any view in support of any cause, while not disrupting college operations or infringing on the rights of others.
- Dress in any way that personal taste dictates and that does not interfere with the educational process or with health and safety requirements.
- Expect that possessions not be opened or searched without consent or unless probable cause exists or under urgent circumstances.
- Be informed of institutional procedures and other expectations.
- Have access to services without unreasonable delays.
- Expect professional conduct from college employees.

Freedom in student affairs, including the right to:

- Have a student government.
- Organize and join campus clubs for educational, political, social, religious or cultural purposes. The function and structure of student clubs is determined by the FRCC club guidelines.
- Use meeting rooms and other campus facilities, as well as bulletin boards, throughout the campus in compliance with college policies and procedures.
- Expect compliance with college contractual agreements.
- Assemble, select speakers and guests, discuss issues of choice, and have the same rights as other citizens to hear differing points of view and to draw conclusions.
- Distribute written materials on campus in a manner consistent with other rights and freedoms, after obtaining the prior approval required of any individual or organization (please contact Student Services).

Freedom in academic affairs, including the right to:

- Serve as members of committees that study such issues as: course scheduling, the instructional calendar, library policy and development, grading systems, course and curriculum development, search committees, and standards and procedures for student discipline.
- Appeal academic decisions regarding completion of program, graduation requirements, academic dismissal from a program, or final grades.

Student Grievance Procedure

FRCC has a formal student grievance procedure that provides students the right to seek redress, when they believe that their rights or freedoms have been violated. A grievable offense is any alleged action that violates or inequitably applies written college policies or procedures. Students may not formally grieve a course grade, but may pursue grading clarification with the faculty member and the Dean of Instruction, and file a formal academic appeal. Procedures for lodging informal and formal grievances are available in the Office of Student Life, college information desks, the Office of the Dean of Student Services, or go to the Student Handbook at www.frontrange.edu/Current-Students/Student-Life.

Violations of Student Code of Conduct

Conduct that violates student rights and freedoms and is subject to disciplinary action includes, but is not limited to:

1. Academic Misconduct:

Plagiarizing, cheating, or committing any other form of academic misconduct including, but not limited to, unauthorized collaboration, falsification of information, and/or helping someone else violate reasonable standards for academic behavior. Students who engage in any type of academic dishonesty are subject to both academic consequences as determined by the instructor and to disciplinary action as outlined in the Front Range Community College disciplinary procedures.

2. Disruptive Behavior:

Engaging in any disruptive behavior that negatively affects or impedes teaching or learning (regardless of mode of delivery or class setting); or disrupts the general operation of the college.

3. Deceitful Acts:

Engaging in deceitful acts, including, but not limited to: forgery, falsification, alteration, misrepresentation, non-disclosure, or misuse of documents, records, identification and/or educational materials.

4. Conduct that is Detrimental to College or to Safety:

Conduct that is deemed detrimental, harmful and/or damaging to the college and/or that jeopardizes the safety of others as determined by the Dean of Student Services. Examples include, but are not limited to, slamming doors, throwing chairs, and/or defacing of college property, or property of others.

5. Physical/Non-physical Abuse:

- Physical abuse or conduct that threatens or endangers another person's health or safety.
- Non-physical abuse, threats, intimidation, coercion, influence, or any unwelcome conduct in any form that is sufficiently severe, pervasive or persistent that it alters the conditions of the learning environment or employment.
- Knowingly falsifying, publishing or distributing, in any form, material that tends to impeach the honesty, integrity, virtue or reputation of another person.

6. Harassment and/or Discrimination:

Discrimination or harassment on the basis of sex/gender, race, color, age, creed, national or ethnic origin, physical or mental disability, veteran status, pregnancy status, religion or sexual orientation.

7. Sexual Misconduct:

- Sexual Misconduct offenses include, but are not limited to Sexual Harassment, Non-Consensual Sexual Contact (or attempts to commit same), Non-Consensual Sexual Intercourse (or attempts to commit same), and/or Sexual Exploitation
- For more information see SP 4-120a: www.frontrange.edu/About-Us/Legal-Info-Disclaimers/Sexual-Harassment/Policy-Overview.aspx.

8. Weapons:

Possession or distribution of any unauthorized firearms, ammunition, explosives, fireworks and/or other dangerous weapons (or chemicals/ flammable liquids) or use/threat of use of any instrument (including, but not limited to paint ball guns, pellet guns, air soft guns, bow and arrows, knives) as a weapon to intimidate, harass, or cause harm to others.

9. Narcotics/Alcohol:

Use, being under the influence, manufacturing, possession, cultivating, distribution, purchase or sale of alcohol and/or drugs (illegal and/or dangerous or controlled substance) and/or alcohol/drug paraphernalia while on college owned or college controlled property, and/or at any function authorized or supervised by the college and/or in state owned or leased vehicles.

Note: Although possession and use of marijuana consistent with the requirements of the Colorado Constitution is no longer a crime in the State of Colorado, the possession and use of marijuana remains illegal under federal law. Consistent with federal law, including the Controlled Substances Act and the Drug Free Schools and Communities Act, the use and/or possession of marijuana continues to be prohibited while a student is on college owned or college controlled property, and/or any function authorized or supervised by the college and/or in state owned or leased vehicles.

10. Dress Code:

Dress or personal hygiene that fails to meet the established safety or health standards of specific classes or activities offered by the college.

11. Leaving Children Unattended:

Leaving children unattended or unsupervised in campus buildings or on campus grounds unless enrolled or participating in authorized campus activities.

12. Violation of Laws, Directives, and Signage:

- Violating any municipal, county, state or federal law that adversely impacts the conditions of the educational or employment environment.
- Violations of college traffic and parking rules, regulations, or signage.
- Damage to or falsely using fire alarms and/or fire extinguishers.
- Creating an intentional obstruction that unreasonably interferes with freedom of movement, either pedestrian or vehicular. This includes, but is not limited to leading or inciting to disrupt college activities.
- Failure to comply with the lawful directives of College employees acting within the scope of their duties, including those directives issued by a College administrator to ensure the safety and wellbeing of others.
- Violations of college policies, protocols, or procedures or signage.

13. Illegal Gambling:

Participation in illegal gambling activities on college owned or college controlled property, and/or any function authorized or supervised by the college and/or in state owned or leased property.

14. Unauthorized Entry and/or Unauthorized Possession:

Entry into, or use of any building, room, or other college-owned or college-controlled property, grounds, or activities without authorized approval. This also includes, but is not limited to the unauthorized possession, duplication or use of college keys, lock combinations, access codes, and access cards and/or credentials and/or propping open or tampering with doors/windows..

15. Unacceptable Use of College Equipment, Network or System:

Unacceptable uses of any college-owned or operated equipment, network or system including, but not limited to: knowingly spreading computer viruses; reposting personal communications without author's consent; copying protected materials; using the network for financial or personal gain, commercial activity, or illegal activity; accessing the network using another individuals account; unauthorized downloading/uploading software and/or digital video or music; downloading/uploading, viewing or displaying pornographic content, or any other attempt to compromise network integrity.

16. Unauthorized Pets/Animals:

Possession of any unauthorized pet or animal, excluding trained service animals (For residential dorms only: and/or assistance animals) while on college-owned or college-controlled property.

17. Tampering with Student Organization or Election:

Tampering with the process of any college recognized student organization, election or vote.

18. Group or Organization Conduct:

Students who are members of a college recognized student organization or group and commit a violation of Student Code of Conduct may be accountable both as an individual and as a member of the student organization.

19. Abuse of the Student Disciplinary and/or Grievance Procedure:

Abuse of the Student Disciplinary and/or Grievance Procedure includes, but is not limited to the following:

- Disruption or interference with the orderly conduct of the student disciplinary / grievance procedure.
- Falsification, distortion, or misrepresentation, or knowingly pursuing malicious, frivolous, or fraudulent charges.
- Attempting to discourage an individual's proper participation in, or use of, the student disciplinary / grievance procedure.
- Attempting to influence the impartiality of a participant and/or the student disciplinary / grievance procedure.
- Harassment (verbal or physical) and/or intimidation of a participant in the student disciplinary / grievance procedure.
- Failure to comply with directives and/or sanctions imposed under student disciplinary / grievance procedure.
- Influencing or attempting to influence another person to commit an abuse of the student disciplinary / grievance procedure.
- Engaging in retaliatory acts in any form against any person or person(s) involved in the student disciplinary / grievance procedure.

20. Unauthorized Entry into College Events:

Entering or attempting to enter any college-sponsored activity without proper credentials for admission.

Please note: In most circumstances, college will treat attempts to commit code of conduct violations as if those attempts had been completed.

Violations of the above may result in, but are not limited to, fines, restitution, community service, and/or disciplinary procedures.

The following person has been designated to handle allegations regarding nondiscrimination policies: Paul M. Meese, Executive Director, Organizational Development and Human Resources, 303-678-3707, 2190 Miller Drive, Longmont, CO 80501 or paul.meese@frontrange.edu. Grievance procedures for Title IX, Section 504, and ADA have been established for students and employees who believe that discrimination has occurred.

Plagiarism

Front Range Community College considers plagiarism as a serious violation of the Student Code of Conduct. Such conduct is subject to disciplinary action and may include failing the assignment, failing the course, dismissal from the class or college, and other possible disciplinary actions. Plagiarism applies to any material written by someone else. This material can be published in books, magazines, journals, and newspapers. It may also include lyrics, computer code, scientific charts and graphs, and materials published on websites via the Internet. When students use information from these sources, they are required to properly cite and document the sources utilized. Students should consult their

instructor for the appropriate methods for citing and documenting sources. (Refer to section entitled "Academic Integrity".)

Disciplinary Procedures

Please consult the college website, a college Student Life office, or the campus Dean of Student Services for procedures.

If there is a finding that a student has violated the Student Code of Conduct, one or more of the following sanctions may be imposed:

1. Warning

A Notice served upon the student advising him/her that he/she is violating or has violated College regulations.

2. Probation

After a finding of violation of the Code of Conduct, restriction of student's privileges for a designated period of time including the probability of more severe disciplinary sanctions if the student is found to be violating any College regulations during the probationary period.

3. Other disciplinary sanction

Fines, restitution, denial of privileges, assignment to perform services for the benefit of the college or community; or other sanction that doesn't result in the student being denied the right of attending classes.

4. College suspension or expulsion:

An involuntary separation of the student from the College for misconduct not based on academic performance for a specified period of time.

- a. Suspension is a separation that shall not exceed three academic terms per suspension for any singular offense or situation. While a student is suspended, he or she is not eligible for admission or re-admission at any of the community colleges within CCCS. Once the suspension is lifted the student is eligible for admission or re-admission. Examples of suspension include, but are not limited to the following: the college, a department or program, a class, residence hall, use of a college facility or an activity. Students may be suspended from one class period by the responsible faculty member or adjunct instructor. Longer suspensions can only be implemented by the CSSO or designee in accordance with this procedure.
- b. Expulsion is an indefinite separation from the college. The student is not eligible for admission or re-admission at any of the community colleges within CCCS.
- c. In exceptional cases where a student wants to be considered for admission or re-admission after an expulsion has been implemented, the student bears the burden to prove the behavior that resulted in the expulsion has been resolved. It is within the college's discretion to admit or deny the student.

5. Interim Suspension:

An immediate action taken by the CSSO to ensure the safety and well-being of members of the college community; preservation of college property; or if the student poses a definite threat of disruption or interference to others or the normal operations of the college. In the event of an interim suspension, the hearing before the CSSO or designee shall occur as soon as possible following the interim suspension. If the college issues a permanent sanction, the student shall be afforded appeal rights as discussed below. If the college does not implement a permanent sanction, the interim suspension

will be removed from the student's record.

Disciplinary procedures are listed in the FRCC Student Handbook. Copies are available in the Office of Student Life, at the college information desks, and in the Office of the Dean of Student Services. Interpretation of the disciplinary procedures is the responsibility of the Dean of Student Services.

Sexual Harassment

Title IX of the Education Amendments of 1972 prohibits sex discrimination in educational programs. FRCC, by virtue of its commitment to the ideals of dignity, equality, and mutual respect for all people, deplors, and condemns any form of sexual harassment. It is the intent of FRCC to comply with both the letter and the spirit of Title IX to make certain discrimination does not occur or adversely affect the educational environment. FRCC has a legitimate and compelling interest in prohibiting sexual harassment. Further, FRCC has an obligation to discipline those who do engage in sexually harassing behavior.

Sexual harassment in the educational environment may occur among students, administrators, faculty, staff, visitors, or other persons on campus or at college-related activities. The range of unwelcome, unwanted, and inappropriate behaviors may include, but are not limited to:

- An attempt to coerce an unwilling person into a sexual relationship.
- To repeatedly subject a person to egregious, unwelcome sexual attention.
- To punish a refusal to comply with a sexual based request.
- To condition a benefit on submitting to sexual advances.
- Sexual violence which is defined as threatening or causing physical harm, extreme verbal abuse, or other conduct which threatens or endangers the health or safety of any person.
- Violence between those in an intimate relationship.
- Stalking that is gender-based which is defined as repetitive and/or menacing pursuit, following, harassment and/or interference with the peace and/or safety of a member of the community; or the safety of any of the immediate family of members of the community.
- Gender-based bullying which is defined as repeated and/or severe aggressive behavior likely to intimidate or intentionally hurt, control or diminish another person, physically or mentally (excluding speech or conduct otherwise protected by the 1st Amendment).
- Gender expression/stereotyping which is defined as simplistic generalizations about gender attributes, differences, and roles of individuals and/or groups. Stereotypes rarely communicate accurate information about other. When people automatically apply gender assumptions to others regardless of evidence to the contrary, they are perpetuating gender stereotyping.
- Hazing which is defined as acts likely to cause physical or psychological harm or social ostracism to any person within the college community on the basis of gender, when related to the admission, initiation, pledging, joining, or any other group-affiliation activity.
- Discrimination which is defined as actions that deprive other members of the community of educational or

employment access, benefits or opportunities on the basis of gender.

- Intimidation that is gender-based which is defined as implied threats or acts that cause a reasonable fear of harm in another.

Sexual harassment will not be tolerated at FRCC because it creates an unacceptable educational environment. Some situations may be resolved informally. Students who feel that they have been subjected to sexual harassment by other students should contact the Dean of Student Services or Human Resources at the Boulder County, Larimer, or Westminster Campuses. Complaints against FRCC employees should be filed with the Human Resources Office. Please see the Student Tab/General Information Channel of eWOLF for the current Student Sexual Harassment Complaint Procedure documents.

- For information regarding civil rights or grievance procedures, contact: Paul M. Meese, FRCC, College-wide, Title IX Compliance/Equal Opportunity Officer and Executive Director, Organizational Development and Human Resources, 303-678-3707, 2190 Miller Drive, Longmont, CO 80501 or paul.meese@frontrange.edu. Grievance procedures for Title IX, Section 504, and ADA have been established for students and employees who believe that discrimination has occurred.
- The College prohibits and will not tolerate discrimination or harassment that violates federal, state law, or Board Policy 3-120 or Board Policy 4-120. The College does not discriminate on the basis of gender, sex, race, color, age, creed, national or ethnic origin, physical or mental disability, veteran status, pregnancy status, religion or sexual orientation. The College complies with Titles VI and VII of the Civil Rights Act of 1964, the Civil Rights Act of 1991, the Education Amendments of 1972 (Title IX), the Age Discrimination in Employment Act, the Rehabilitation Act of 1973, the Americans with Disabilities Act, Pregnancy Discrimination Act of 1978, Vietnam Era Veterans Readjustment Assistance Act of 1974; Executive Order 11246, and sections 24-34-301, C.R.S. et seq. **For the proper procedures regarding sexual misconduct, please refer to the System President's Procedures SP 3-120a and SP 4-120a, or contact Paul Meese, Executive Director for further information at extension 3707.**

Voter Registration Information

Front Range Community College supports the National Voter Registration Act by providing students access to voter registration information. The State of Colorado - Voter Registration Application Form is available at www.elections.colorado.gov or at the local County Clerk and Recorder's office. Students with disabilities can access the Voter Registration Application in the office of Disability Support Services.

INDEX

A

- AAA - Advancement of Academic Achievement • 141
- About FRCC • 7
- Academic Advising • 14, 19
- Academic Appeals Procedures • 28, 33
- Academic Freedom • 238
- Academic Integrity • 30
- Academic Matters • 28
- Academic Progress Policy • 28
- Academic Renewal Policy • 28
- ACC - Accounting • 141
- Accommodations • 14
- Accounting - Associate of Applied Science Degree • 92
- Accounting - Certificate • 92
- Accounting - Enrolled Agent Certificate • 93
- Accounting Transfer • 93
- Accreditation • 7
- Additional Information • 18
- Additional Specialized Courses • 140
- Administration • 230
- Admission Process for LPN to ADN • 131
- Admission Process for Practical Nursing Certificate • 133
- Admissions and Records • 19
- Advanced Architectural Computer-Aided Drafting Certificate • 102
- Advanced Drivability Diagnosis Certificate • 97
- Advanced Mechanical CAD Certificate • 102
- Advising Sheet
 - Associate of Arts Degree Worksheet • 42
 - Associate of Arts Degree, Agreement in Early Childhood Education for Transfer • 56
 - Associate of Arts Degree, Agreement in Elementary Education for Transfer • 60
 - Associate of Arts Degree, Designation in Anthropology for Transfer • 48
 - Associate of Arts Degree, Designation in Business for Transfer • 51
 - Associate of Arts Degree, Designation in Criminal Justice for Transfer • 53
 - Associate of Arts Degree, Designation in Economics for Transfer • 57
 - Associate of Arts Degree, Designation in French for Transfer • 61
 - Associate of Arts Degree, Designation in History for Transfer • 64
 - Associate of Arts Degree, Designation in Political Science for Transfer • 67
 - Associate of Arts Degree, Designation in Psychology for Transfer • 70
 - Associate of Arts Degree, Designation in Sociology for Transfer • 73
 - Associate of Arts Degree, Designation in Spanish for Transfer • 76
 - Associate of General Studies Degree Worksheet • 84
 - Associate of Science Degree Worksheet • 45
 - Associate of Science Degree, Designation in Mathematics for Transfer • 79
 - Associate of Science Degree, Designation in Psychology for Transfer • 82
- Advisory Councils • 10
- AEC - Architectural Engineering and Construction Technology • 142
- AIR - Air Force ROTC • 143
- ALT - Animal Lab Technology • 143
- Animal Laboratory Technology - Associate of Applied Science • 93
- Animation • 126
- Animation and Visualization CAD Certificate • 102
- Animation Certificate • 128
- ANT - Anthropology • 144
- Appeal of Drop or Withdrawal Deadlines: • 34
- Appeal of Higher Education Policy Issues • 35
- Appeal Procedures for Residency and Tuition Classification • 34
- Appeal to Colorado Community College System (CCCS) • 34
- Appeal to Colorado Department of Higher Education (CDHE) • 34
- Application and Enrollment Procedures for New Students • 11
- Application for Admission • 11
- Application for Graduation • 31
- Application Procedure • 17
- Application Process for AAS Degree • 130
- Applications Specialist Certificate • 104
- Applied Technology - Associate of Applied Science Degree • 94
- Approved General Education Electives List for Associate of Applied Science Degree • 87
- AQT - Aquaculture • 145
- ARA - Arabic • 145
- Architectural and Building Science - Associate of Applied Science Degree • 95
- Architectural Drafting Certificate • 96
- Architectural Engineering and Construction Technology • 95
- Architectural Engineering and Construction Technology - Certificates • 96
- ARM - Army ROTC • 145
- Aromatherapy Certificate • 114
- ART - Art • 146
- Articulation Agreements • 24
- ASC - Animal Sciences • 149
- ASE - Auto Service Technology • 149
- ASL - American Sign Language • 151
- Assessment Exemptions • 14
- Assessment for Placement • 13
- Assessment of English as a Second Language Students • 14
- Associate Degrees • 37, 89
- Associate Degrees with Designations • 48
- Associate of Applied Science Degree • 86
- Associate of Arts Degree • 41
- Associate of Arts Degree with Business Designation • 99
- Associate of General Studies Degree • 84
- Associate of Science Degree • 45
- Associate of Science for Transfer in Engineering • 110
- AST - Astronomy • 152
- Attendance • 28
- AU - Audit: • 29

FRONT RANGE COMMUNITY COLLEGE

AUT - Auto Motorsports Technology • 152
Automatic Transmission/Transaxle Certificate • 97
Automotive Technology - Certificates • 97
Automotive Technology - Associate of Applied Science Degree • 96
AW - Administrative Withdrawal: • 30

B

Bad Checks • 16
Basic Computer-Aided Drafting and Design Certificate • 102
Basic Laboratory Animal Care - Certificate • 94
Basic Mechanical CAD Certificate • 103
Billing Specialist • 122
Billing Specialist Certificate • 124
BIO - Biology • 152
Bookstores • 19
Boulder County Campus • 21
Brakes Certificate • 97
Brighton Center • 21
Brighton Center Services • 19
Building Science and Sustainable Design Certificate • 96
BUS - Business • 153
Business - Associate of Applied Science Degree • 98
Business - Certificates • 99
Business Specialization Certificate • 99

C

CAD - Computer-Aided Drafting • 154
Campus Security & Preparedness / Accident Reports • 19
Campus Security and Preparedness • 237
Campuses • 7
CAR - Carpentry • 156
Career Counseling • 19
Career/Technical Education • 23
CCOnline • 23
Certificates • 90
Certificates Available by Campus • 90
Change of Contact Information • 32
CHE - Chemistry • 156
CHI - Chinese • 157
Child Care • 19
Choosing or Changing Program of Study • 14
Chronology of FRCC's Campuses • 9
CIS - Computer Information Systems • 157
Cisco CCNA - Computer Wide Area Networks Concentration • 104
CISCO Network Associate Certificate • 105
Civil CAD Certificate • 103
Classroom Instruction • 23
Clean Energy Technology - Associate of Applied Science Degree • 100
Clean Energy Technology Certificate • 101
Clinical Office Assistant Certificate • 124
CNG - Computer Networking • 158
College Now
 Career Pathways (High School Career and Technical Programs) • 26
 High School Select (Concurrent Enrollment Options) • 27
College of Communities • 9
College Opportunity Fund Billing Appeal • 35

College Transcripts and Awarding of Transfer Credit • 11
Colorado Child Care Licensing Requirements • 107
Colorado Guaranteed Transfer Program for General Education • 39
COM - Communication • 159
Commencement • 32
Commercial Refrigeration Certificate • 113
Commitment to Diversity • 10
Comprehensive Welding Certificate • 138
Computer Information Systems - Areas of Concentration • 103
Computer Information Systems - Associate of Applied Science Degree • 103
Computer Information Systems - Certificates • 104
Computer Labs • 19
Computer Labs and Computer Viruses • 237
Computer Technician
 A+ Certificate • 105
 Network+ Certificate • 105
Computer-Aided Drafting and Design - Associate of Applied Science Degree • 101
Computer-Aided Drafting and Design - Certificates • 102
CON - Construction Technology • 160
Continuing Education • 26
Course Changes • 228
Course Descriptions • 140
Course Fees** • 15
Course Load • 29
Course Number, Course Name, & Credit Changes Since Our Last Catalog • 228
Course Substitution Appeal • 36
Course Waitlist • 14
Courses Added • 228
Courses Deleted • 228
Courses Not Applicable to Any Degree or Certificate • 87
Creative Metalworking Certificate • 138
Credit Card Charge Backs • 16
Credit for Prior Learning • 24
Credit Hours • 28
Credits • 7
Crisis Counseling & Stress Management Services • 19
CRJ - Criminal Justice • 160
CSC - Computer Science • 161
CUA - Culinary Arts • 162
Culinary Arts Certificate • 119
CWB - Computer Web-Based • 162

D

DAN - Dance • 162
DEA - Dental Assisting • 163
Declaring a Program of Study • 11
Deferred Payment • 16
Definitions: • 36
Degrees and Certificates • 92
Delinquent Accounts • 16
Dental Assisting - Certificate • 106
Digital Imaging Certificate • 128
Director Certificate • 107
Disability Services • 19, 21
Disciplinary Procedures • 241
DPM - Diesel Power Mechanics • 165

Dropping and Withdrawing from Courses • 32
Dropping Courses: • 32

E

Early Childhood Education • 109
Early Childhood Education - Associate of Applied Science Degree • 106
Early Childhood Education - Certificates • 107
Early Childhood Education for Paraeducators Certificate • 107
Early Childhood Education for Transfer • 109
Early Childhood Education for Transfer - Associate of Arts Degree • 108
Early Childhood Teacher Certificate • 108
ECE - Early Childhood Education • 165
ECO - Economics • 167
EDU - Education • 167
Educational Opportunity Centers • 19
EGG - Engineering • 169
EGT - Engineering Graphics Technology • 169
Electrical/Electronic Systems Certificate • 97
Electronic Information Sources • 19
Elementary Education • 109
Elementary Education for Transfer • 109
Elementary Education for Transfer - Associate of Arts Degree • 109
ELT - Electronics • 170
Emergency Medical Services - Certificates • 109
Emergency Medical Technician Certificate • 110
Employability Assistance • 21
EMS - Emergency Medical Services • 170
ENG - English • 171
Engine Performance Certificate • 98
Engine Repair Certificate • 98
Engineering for Transfer - Associate of Science Degree • 110
English as a Second Language • 19
ENP - Entrepreneurship • 173
Enrollment Processes • 11
ENV - Environmental Sciences • 173
Environmental Education Certificate • 111
ENY - Energy • 173
Equal Opportunity • 236
ESL - English as a Second Language • 174
ETH - Ethnic Studies • 175
Events Planning Coordinator Certificate • 119
Explanation of Fees • 15

F

Faculty • 231
Faculty and Staff • 230
Fall Semester 2013 • 2
Family Education Rights and Privacy • 236
Fee Disputes • 15
Fees • 25
FIN - Finance • 175
Financial Aid • 16
Financial Aid Eligibility Criteria • 17
Financial Aid Satisfactory Academic Progress (SAP) Appeal Process • 35
Financial Aid Satisfactory Academic Progress Policy • 17
Financial Matters • 15
Financial Obligations of Students • 16

Fitness Center • 20
FLD - Floral Design • 175
Floral Design Certificate • 116
Food & Beverage Management Certificate • 120
Food Service • 20
For Certificates students must: • 37
For Degrees students must: • 37
For more information • 26
Forestry Certificate • 111
Forestry, Wildlife and Natural Resources - Associate of Applied Science Degree • 110
Forestry, Wildlife and Natural Resources - Certificates • 111
Foundations for Paraeducators Certificate • 108
FRCC and the Student Appeals Process • 33
FRCC Guaranteed Completion of A.A. / A.S. in Two Years • 39
FRCC Online Courses • 23
FRCC Online Learning • 7
FRCC Policy on Tracking of Student Complaints • 36
FRE - French • 175
FSW - Fire Science Wildland • 176
Funding Sources • 17

G

Gainful Employment Disclosure Information • 7
Gas Metal Arc Welding (MIG) Certificate • 138
Gas Tungsten Arc Welding (TIG) Certificate • 138
Gateway to College (GtC) • 20
General Education • 23
General Education Development (GED) • 20
General Requirements for Degrees and Certificates • 37
GEO - Geography • 176
Geographic Information Systems - Certificates • 111
Geographic Information Systems Certificate • 111
GER - German • 177
GEY - Geology • 177
GIS - Geographic Information Systems • 178
GIS Fundamentals Certificate • 112
Grade Definitions: • 29
Grade Point Average: • 30
Grades • 29
Grades Required for Program Certificates and Degrees • 31
Graduation Appeal • 36
Graduation Honors • 31
Grants • 17
Graphic Design Technician Certificate • 129
Guaranteed Transferability • 38

H

HB 1023 Waiver • 36
HB1023 Verification • 12
Health Care Office Assistant Certificate • 124
Health Information Technology - Associate of Applied Science Degree • 112
Heating and Air Conditioning Certificate • 98
Heating, Ventilation, and Air Conditioning - Associate of Applied Science Degree • 112
Heating, Ventilation, and Air Conditioning - Certificates • 113
HHP - Holistic Health Professional • 178

High School Students Seeking Concurrent Enrollment Options • 12
 HIS - History • 181
 HIT - Health Information Technology • 183
 HLT - Horticulture and Landscape Technologies • 184
 Holistic Health - Associate of Applied Science Degree • 114
 Holistic Health - Certificate • 114
 Holistic Health - Certificates • 114
 Honors Program at Larimer Campus • 25
 Horticulture and Landscape Technologies - Associate of Applied Science Degree • 115
 Horticulture and Landscape Technologies - Certificates • 116
 Horticulture Certificate • 117
 HOS - Hospitality/Culinary Arts Management • 186
 Hospitality and Culinary Arts Management - Associate of Applied Science Degree • 118
 Hospitality and Culinary Arts Management - Certificates • 119
 Hotel Operations Certificate • 120
 Housing • 20
 HPE - Human Performance & Exercise • 188
 HPR - Health Professional • 188
 HUM - Humanities • 189
 HVA - Heating, Ventilation and Air Conditioning • 190
 HWE - Health Wellness Education • 190
 Hybrid Courses • 23

I

I - Incomplete Grade: • 29
 Illegal File Sharing • 237
 Important Dates to Remember • 2
 IND - Interior Design • 191
 Individualized Area of Concentration • 104
 Infant-Toddler Nursery Supervisor Certificate • 108
 Information • 20
 Institutional College Opportunity Fund Waiver Process • 35
 Instruction and Student Services • 230
 Instructional Delivery • 23
 Instructional Information • 23
 Instructional Philosophy Statement • 23
 Instructional Programs • 89
 Interior Design - Associate of Applied Science in Interior Design • 120
 Interior Design - Certificates • 121
 International Business Basics Certificate • 99
 International Students • 13
 International Travel-Study Abroad Program • 27
 Internship Education • 21
 Interpreter Preparation - Associate of Applied Science Degree • 121
 IPP - Interpreter Preparation • 192
 Irrigation Contracting and Management Certificate • 117
 ITA - Italian • 193

J

JOU - Journalism • 194
 JPN - Japanese • 194

K

Kitchen and Bath Design Certificate • 121

L

Laboratory Animal Care and Management - Certificate • 94
 Landscape CAD Technician Certificate • 103, 117
 Landscape Contracting Technician Certificate • 117
 Landscape Design Certificate • 117
 Landscape Maintenance Technician Certificate • 118
 Larimer Campus • 21
 Last Date of Attendance: • 30
 Learning Support Services • 20
 Legal Assistant • 195
 Legal Assistant Certificate • 134
 Legal Notices • 236
 Libraries • 20
 Light Commercial Air Conditioning and Heating Certificate • 113
 Light Diesel Engine Repair • 98
 LIT - Literature • 195
 Loans • 17

M

MAC - Machining Technology • 196
 MAN - Management • 196
 Management • 121
 Management Basics Certificate • 99
 Manual Drivetrain and Axles • 98
 MAR - Marketing • 197
 Marketing • 121
 Marketing Basics Certificate • 99
 Massage Therapy - Certificate • 115
 MAT - Mathematics • 198
 Medical Administrative Assistant Certificate • 125
 Medical Administrative Assisting • 122
 Medical Assistant Certificate • 125
 Medical Assisting • 123
 Medical Office Technology - Areas of Concentration • 122
 Medical Office Technology - Associate of Applied Science Degree • 122
 Medical Office Technology - Certificates • 123
 Medical Transcriptionist Certificate • 125
 Medxia Services • 21
 MET - Meteorology • 200
 MGD - Multimedia Graphic Design • 200
 Microsoft Network Administration • 104
 Microsoft Network Administration Certificate • 105
 Minimum Requirements for Nursing Program Application: • 130
 Mission and Strategic Plan • 8
 MOT - Medical Office Technology • 203
 MST - Massage Therapy • 205
 MTE - Manufacturing Technology • 205
 Multimedia General Certificate • 129
 Multimedia Print/Presentation Certificate • 129
 Multimedia Technology - Certificates • 128
 Multimedia Video Certificate • 129
 Multimedia Web Certificate • 129
 Multimexdia Technology - Areas of Concentration • 126
 Multimexdia Technology - Associate of Applied Science Degree • 125
 MUS - Music • 206

N

Name Change Policy • 32
 Natural Resources Certificate • 111
 Natural Resources For Transfer • 110
 Natural Resources Geographic Information Systems Certificate • 111
 Natural Resources Recreation Certificate • 111
 Nonattendance • 16
 Nondiscrimination on Basis of Disability • 237
 Nondiscrimination Statement • 237
 Non-Resident Students and the Western Undergraduate Exchange (WUE) Program • 12
 NRE - Natural Resources • 207
 NUA - Nurse Aide • 208
 NUR - Nursing • 208
 Nurse Aide Certificate • 134
 Nursery, Greenhouse, and Garden Center Management Certificate • 118
 Nursing • 129
 Nursing - Associate of Applied Science Degree • 130
 Nursing - Certificate • 132
 Nursing Advanced Placement-Bridge Program (LPN to ADN) • 131

O

Online Learning • 23
 OSH - Occupational Safety Technician • 211
 Other Formats Available • 11
 Our Core Values • 8
 OUT - Outdoor Studies • 211
 Oxyacetylene Welding Certificate • 138

P

PAR - Paralegal • 212
 Paralegal Studies - Associate of Applied Science Degree • 134
 Paralegal Studies - Certificate • 134
 Partnerships with K-12 Schools • 26
 Pass Through Fees** • 15
 PED - Physical Education • 213
 Pharmacy Technician - Certificate • 135
 PHI - Philosophy • 213
 Phlebotomy - Certificate • 135
 PHO - Photography • 215
 PHT - Pharmacy Technician • 215
 PHY - Physics • 216
 Physical Examination and Immunization • 11
 Pipe Code Welding Certificate • 138
 Plagiarism • 240
 Please Recycle • 7
 Policies and Procedures • 24
 Policy on Exclusionary Orders • 237
 POS - Political Science • 217
 PPT - Powerplant Technology • 217
 Practical Nursing Program Certificate • 132
 Pre-Assessment Preparation • 14
 Pre-Paramedic Certificate • 110
 Print and Presentation • 126
 Privacy • 11
 Procedures for Transfer Credit Appeal at the College Level: • 34
 Procedures: • 35, 36
 Program Admission Requirements: • 135, 136
 Programming • 104

Programming Certificate • 105
 Programs Accredited by Special Agencies • 7
 Programs Available by Campus • 89
 PSY - Psychology • 218
 Publications • 22
 Purpose • 8

R

REA - Reading • 219
 Readmission (Former Students) • 11
 REC - Recreation • 219
 Recognized Student Clubs and Organizations • 21
 Reflexology - Certificate • 115
 Refunds for Canceled Classes • 16
 Refunds for Dropped Courses • 16
 Registration • 14
 Registration Fee*** • 15
 Repeat field Indicators - I or E: • 30
 Repeated Courses • 32
 Requirements for Bridge Program Admission: • 131
 Residency • 12
 Residential Air Conditioning and Heating Certificate • 113
 Retail Management Certificate • 99
 Rights Reserved • 236
 ROTC Air Force • 26
 ROTC Army • 26
 RUS - Russian • 219

S

S - Satisfactory: • 30
 S/A, S/B, S/C: • 30
 Scholarships • 18
 School-based and Campus-based Credit and Non-credit Courses • 27
 SCI - Science • 220
 Services for Students • 19
 Sexual Harassment • 241
 Shielded Metal Arc Welding Certificate • 139
 Single Parent Program • 21
 Small Business Development Center • 27
 Small Business Management Basics Certificate • 99
 SOC - Sociology • 220
 SP - Satisfactory Progress: • 30
 SPA - Spanish • 221
 SPE - Speech • 222
 Special Application Procedures • 11
 Special Services • 21
 Specific Certificate Requirements • 87
 Spring Semester 2014 • 2
 Standards for Awarding Credit for Prior Learning • 24
 State Board for Colorado Community Colleges & Occupational Education • 230
 State Guaranteed General Education Transfer Courses • 140
 Statewide Transfer Policy and Student Bill of Rights • 39
 Structural Drafting Certificate • 96
 Student Appeal Process for Colorado Guaranteed Transfer Program for General Education • 35
 Student Center / Campus Center Bond Fee** • 15
 Student Classification • 11
 Student Code of Conduct • 238
 Student Complaints • 36

Student Email • 21
 Student Employment Services • 21
 Student Governance • 21
 Student Grievance Procedure • 36, 239
 Student Identification Number • 11, 21
 Student Learning, Assessment, and Accountability • 23
 Student Life • 21
 Student Right to Know • 238
 Student Rights and Responsibilities • 236
 Student Rights, Freedoms, and Responsibilities • 238
 Student Services • 19
 Student, Parking and Facility Fees** • 15
 Student/Campus Centers • 21
 Students may not: • 37
 Summer Aid • 18
 Summer Semester 2013 • 2
 Supplemental Instruction • 26
 Suspension and Steering • 98
 SVT - Sport Vehicle Technology • 222

T

Teacher Education • 136
 Teacher License Renewal • 22
 Teaching English as a Second Language (TESL) - Certificates • 136
 Teaching English as a Second Language Certificate Abroad (TESL-A) • 136
 Teaching English as a Second Language Certificate K-12 (TESL-K) • 136
 TEL - Teaching English as a Second Language (TESL) • 222
 Term Academic Honors • 31
 Testing Center Services • 22
 THE - Theatre Arts • 223
 Transcript Requests • 32
 Transfer Agreements: • 38
 Transfer Appeals Process • 34
 Transfer Education • 23
 Transferability of Credit for Prior Learning • 25
 Transferring Credit to Four-Year Schools • 37
 Transferring Credit to FRCC • 33
 Tuition and Fee Payment • 15
 Tuition and Fee Refunds • 16
 Turfgrass Management Certificate • 118
 Tutoring • 20

U

U - Unsatisfactory: • 30
 U/D, U/F: • 30
 Underage Admissions • 13
 Urban Agriculture Management Certificate • 118

V

VET - Veterinary Technology • 224
 Veterans' Eligibility • 22
 Veterinary Technology - Veterinary Technician Assistant Certificate • 137
 Veterinary Technology - Associate of Applied Science Degree • 136
 Video • 127
 Violations of Student Code of Conduct • 239
 Voter Registration Information • 242

W

Web Authoring Certificate • 105
 Web Developer • 104
 Web Developer Certificate • 106
 Web Medxia • 127
 WEL - Welding Technology • 226
 Welcome to Front Range Community College • 1
 Welding Fundamentals Certificate • 139
 Welding Technology - Associate of Applied Science Degree • 138
 Welding Technology - Certificates • 138
 Westminster Campus • 21
 Which Catalog to Use • 11
 Wildland Fire Certificate • 111
 Wildlife Certificate • 111
 Withdrawal: • 32
 Work Study • 17
 WST - Women's Studies • 227
 W-Withdrawal: • 30

Y

Yoga Teacher - Certificate • 115

Z

Z - No Grade Submitted: • 30