

Arapahoe Community College
Institutional Effectiveness and Environmental Scan
June, 2003

**Prepared by the Office of Enrollment Management
and Institutional Research**
Lin Claussen, Suzanne Larsh, Margaret Puryear

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Executive Summary and Highlights

The purpose of this document is to provide data, trends, and informative reports that support fact-based strategic decision-making. The following summary is a listing of "highlights" that have been gleaned from the body of this document by the Office of Enrollment Management and Institutional Research. Users of this document should not limit themselves to relying solely on the below listing for useful information about the College and its environment, but rather, should review the detailed data to draw their own conclusions.

Beside each bulleted highlight is a reference to the source of information. Each source/report is included in this document and listed alphabetically in the Table of Contents.

If you have any comments or suggestions concerning this document, feedback is always welcome.

Respectfully submitted,
Lin Claussen, Director
Enrollment Mgmt & Institutional Research

Strengths:

- ◉ ACC reached an all-time high of 12,638 in unduplicated headcount for 02-03. (Ref: ACC Report Card; Headcount, Unduplicated chart)
- ◉ ACC's ethnic-minority student make up (percentage) exceeds the service area percentage by almost 6%. (Ref: ACC Report Card, ACC Ethnic-Minority rate and Age Trends)
- ◉ ACC grew 8.6% in reportable FTE for 02-03, the highest FTE in the past four years. (Ref: ACC Report Card)
- ◉ The Fall-to-Spring Retention rates increased to 61% for 02-03 - the highest rate over the past five years. (Ref: ACC Report Card)
- ◉ The Jumpstart Program (first semester early intervention program) continues to prove successful with a Fall to Spring retention rate of 73%. (Ref: Jumpstart Retention Rates)
- ◉ Financial Aid Applicants have increased by 21% and Financial Aid Award Amounts have increased by 33% for 02-03 compared to the previous year. (Ref: ACC Report Card)

- ◉ Our High School Conversion rate, defined as # of recent HS graduates from service area high schools enrolled fall semester at ACC, increased to 7% for the HS class of 02 compared to 6% for HS Class 01. (Ref: High School Conversion Rates chart).

Weaknesses:

- ◉ The high school co-enroll population has declined by 38% over the past two years. (Ref: ACC Report Card)
- ◉ ACC's Fall-to-Fall retention rate for both ethnic-minority and overall population did not meet CCCS benchmarks (ACC rates = 47-48%, benchmark = 55+%). (Ref: ACC Report Card – Cohort based)
- ◉ Although our ethnic-minority graduation rates meet CCCS benchmarks, our overall graduation rates did not make benchmark (ACC grad rate = 20.3%, benchmark = 21%). (Ref: ACC Report Card – Cohort based)
- ◉ The Applicant Yield Rate (# of applicants who subsequently enrolled) has declined from 65.3% in FY98-99 to 56.3% in FY02-03. (Ref: ACC Report Card; Applicant Yield Rate chart).

Informational:

- ◉ Over the last two years our proportion of full-time students has increased and average age has slightly decreased; in addition, our HS conversion rate has slightly increased which indicates an increase in our "traditional" student population. (Ref: ACC Report Card)
- ◉ Our non-resident FTE has declined by 50% over the last 5 years while the resident FTE (state reimbursable) FTE has increased by 17% over the same period. (Ref: ACC Report Card)
- ◉ Age trends over the next 10 years will affect two broad age groups: age group 15 to 29 and age group 50-74. Therefore, a two-pronged approach to strategic planning is recommended – preparing for an increasingly large group of "traditional age" students and an increasingly large group of older community members. (Ref: ACC Ethnic-Minority Rate and Age Trends Report; Age Trend Analysis)
- ◉ Based on Fall 2003 numbers, 66% of our students are pursuing a certificate or higher; 28% of our students come to ACC already possessing a certificate or higher; 48% of our students are employed full-time, 61% of our students are female. (Ref: ACC General Demographics).

- ⊙ Based on Fall 02-03 data and analysis, 284 or 28% of the new students who had placements scores and enrolled were considered "doubly-deficient" (did not meet the cut score in two or more placement areas). "Doubly-deficient" students performed below students who were not doubly deficient indicating that ACC is justified in pursuing more intrusive measures, such as mandated placement, orientations, and/or academic success courses, to help this population succeed. (Ref: Doubly Deficient Data)
- ⊙ Site/Mode comparison highlights (Ref: FTE By Site And Mode-of-Delivery) -

Overall Comparison between FY02-03 and the previous year: Hybrid course enrollments increased by 225%, web-based enrollments increased by 37%, Clinics have increased by 215%, Main campus FTE increased by 11%, Art & Design Center increased 10%, Triad increased 15%, UCC increased 46%, CCOnline increased 46%, and ACOnline increased by 33%. Independent Studies increased by 621%/ Non-countable FTE increased by 51%. The Colorado Computer Center decreased in FTE by 70%. Telecourse decreased by 31%. Computer labs, Flex, and self-paced have decreased by 13%, 16% and 37% respectively.

Summer 02-03: Hybrid jumped from 5 FTE to 32.6 FTE (552% increase); Telecourse decreased by 14%; Web-based FTE went up 45%; Main campus FTE went up 9%; Art & Design Center went up 6%; Colorado Computer Center went down 83%; Triad went down 24%; UCC went down 39%; CCOnline courses increased by 34%.

Fall 02-03: Hybrid courses increased by 82%, web-based courses increased by 47%, FTE at Triad increased by 29%, FTE at UCC increased by 45%, CCOnline FTE increased by 51%.

Spring 02-03: Triad FTE increased by 10%, UCC FTE increased by 76%, CCOnline continued its growth with a 49% increase, ACOnline increased by 18%, an explosive growth in hybrid of 341%, telecourse decreased by 44%, computer labs and flex decreased by 44% and 16% respectively.
- ⊙ Of the 01-02 vocational graduates who responded to the follow-up Graduate Employment Status Survey, 66% were employed in a job related to their ACC training and 93% agreed that the ACC program met their educational goals. (Ref: ACC report card; Graduate Employment Status Survey).
- ⊙ Of the 01-02 employers who responded to the Graduate Employment Status Survey, 89% rated employees who graduated from ACC at Good or Excellent Overall Competency. Employers ranked student's 'written communication skills' as the lowest student ability and 'Ability to work with others' was ranked as highest student ability. (ref: Graduate Employment Status Survey - Employer Responses)

- ⊙ The 02-03 Market Penetration Rate for credit courses = 2.29% (of those 18 years old and above) with the highest headcount from the Highlands Ranch area. The 02-03 Market Penetration Rate for non-credit courses = 1.18% (of those 6 years old and above) with the highest headcount also from Highlands Ranch. (ref: Market Penetration Rate chart)
- ⊙ The In-semester persistence rate for traditional-delivery courses = 81.5%. Using 81.5% as a benchmark, Hybrid did quite well with an 80.5% persistence rate. Flex, Telecourse, Individualized computer lab and self-paced courses had the lowest persistence rates in the 60th percentile range. ACConline courses out-perform CCOnline courses with persistence rates of 76% and 74.1% respectively; in addition, CCOnline had an astounding 52% drop for refund rate compared to the next highest of 38% in coop courses. (ref: In-semester Persistence and Attrition Rates charts)
- ⊙ Based on an analysis of Fall 2002 registrants, students who registered late for courses were not found to perform significantly poorer than students who registered on-time. (Ref: Successful Retention and Registration Time Analysis)
- ⊙ Of the students surveyed, 43% prefer evening courses, 34% prefer morning, 11% prefer afternoons and 1% prefer weekends. (Ref: Student Satisfaction Survey results)
- ⊙ Of the students surveyed, the most common ways they heard about ACC was via the mailed class schedule, a teacher or counselor, a friend or other student. (Ref: Student Satisfaction Survey results)
- ⊙ Of the students surveyed, 80% rate their ACC experience as good or very good. (Ref: Student Satisfaction Survey results)
- ⊙ ACC grew by 8.6% in FY02-03 FTE which ranked it 6th of 13 in growth among Colorado Community Colleges. (Ref: CCHE Final Annualized FTE report found in Environmental Scan section)
- ⊙ The ACC Service Area, as of the 2000 census, has a lower proportion of 18-24 year olds than compared to Colorado and the United States, and a higher proportion of ages between 35-54. This difference may go toward explaining why ACC may not always be in sync with other area community colleges in enrollment trends. (Ref: Age/Sex/Income Demographics in Environmental Scan section)
- ⊙ ACC Service area is comparatively very affluent with greater means to afford higher education. (Ref: Age/Sex/Income Demographics and Household Income in the Environmental Scan section)

- ◉ The ACC Service area is highly educated, which, when combined with income and age demographics, supports the theory that the ACC service area "traditional" college age students may tend to go to "traditional" universities. In addition, with 21% of ACC's student population holding an Associate degree or higher, we can conclude that ACC continues to serve a population that values continued education and the upgrading of knowledge & skills. (Ref: Educational Attainment in the Environmental Scan section; ACC General Demographics)
- ◉ ACC may have growth opportunities by creating 2+2 transfer programs in Systems Analysis and Computer Engineering which have a high projected growth rate through 2008 and, for which it appears, none of our sister community colleges offer programs in this area. (Ref: Top 50 Occupations in the Environmental Scan section)
- ◉ Even with the recent downturn in CIS enrollments, the need for Computer Support Specialists is projected to have profound growth through 2008, followed by Registered Nurses and Paralegals. (Ref: Top Jobs Requiring an Associate's Degree) The need for Word Processors & Typists is expected to decrease through 2008. (Ref: The 30 Most Declining Occupations)

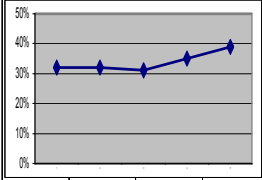
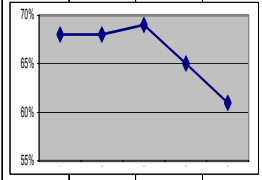
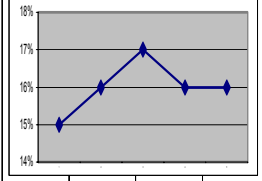
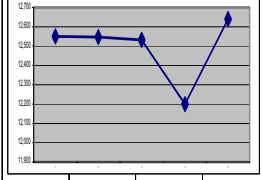
ACC Report Card

Office of Enrollment Management and Institutional Research

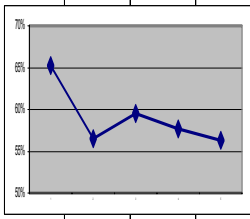
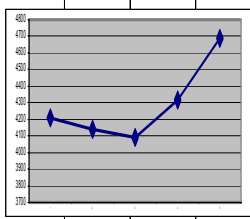
Compiled by Lin Claussen

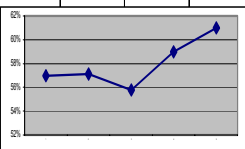
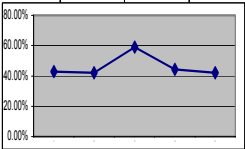
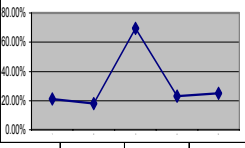
Arapahoe Community College (ACC) draws its role and mission from Colorado Revised Statute, 23-60-201, which states:

"There is hereby established a state system of community and technical colleges which shall be under the management and jurisdiction of the state board for community colleges and occupational education. Each college shall be a two-year institution offering a broad range of general, personal, vocational, and technical education programs. No college shall impose admission requirements upon any student. The objects of the community and technical colleges shall be to provide educational programs to fill the occupational needs of youth and adults in technical and vocational fields, to provide two-year transfer educational programs to qualify students for admission to the junior year at other colleges and universities, and to provide a broad range of programs of personal and vocational education for adults."

		Agency reported to	INFO. SOURCE	98-99	99-00	00-01	01-02	02-03	Benchmark	Benchmark Source	Benchmark met?					
Average Age	Mean	Internal info.	ALLUNDUP.fex by M.P.				32	31	n/a							
	Median	Internal info.	ALLUNDUP.fex by M.P.				28	26	n/a							
	Mode	Internal info.	ALLUNDUP.fex by M.P.				21	20	n/a							
Market Penetration Rate (detail attached)	credit courses pulling ages 18 years and older	Internal info.	report by M.P. via fax & census					2.29%	not established							
	NON-credit courses pulling ages 6 years and older	Internal info.	report by M.P. via fax & census					1.18%	not established							
Enrollment Trend by headcount	Full-time	NCA	accrt_yr L.C.	4025	3913	3896	4223	4880	n/a							
	FT % of Unduplicated HC			32%	32%	31%	35%	39%	n/a							
	Part-time	NCA	accrt_yr L.C.	8522	8631	8633	7976	7758	n/a							
	PT % of Unduplicated HC			68%	68%	69%	65%	61%	n/a							
	Minority		accrt_yr L.C.	1746	1851	1890	1853	1948	n/a							
	% of Unduplicated HC less "other"			15%	16%	17%	16%	16%	10.1%	Service area Ethnic Minority Makeup, Census 2000	Yes					
	Unduplicated per year		CCHE	hc_und.fex L.C.	12,549	12,547	12,532	12,199	12,638	not established						

		Agency reported to							Benchmark	Benchmark	Benchmark				
		INFO. SOURCE	98-99	99-00	00-01	01-02	02-03	Benchmark	Source	met?					
Annualized FTE	In-state (state-subsidized)	CCHE	final FTE report to CCHE	3832	3814.8	3799.7	4079.77	4500.23	n/a						
	Out-of-state (not subsidized)	CCHE	final FTE report to CCHE	375.7	324.9	291.4	238.35	187.59	n/a						
	TOTAL "Reportable" Annualized FTE	Internal Info.	Internal Calc	4207.7	4139.7	4091.1	4318.2	4687.82	n/a						
	% growth compared to previous year (Reportable FTE)				(-1.6%)	(-1.2%)	5.60%	8.60%	10.7%	System College average	No				
	flagged as non-countable - not reported to CCHE (excludes NCTI)	Internal info.	Mode-site summary converted to annualized	13	98	70	35	53	n/a						
	Non-countable as a % of (countable + non-countable) not including NCTI			less than 1%	2.3%	1.7%	less than 1%	1.1%	n/a						
Annual Total "countable" Credits Hrs (Res and Non-res)	CCHE	final FTE report to CCHE	126,231.7	124,190.2	122,727.5	129,540.5	140,634.8	n/a							
Annual "non-countable" credits including NCTI	CCHE	final FTE report to CCHE					44,841.0	n/a							
Prospect Yield rate			Under construction												
Applicant Yield rate	Applicants (totalled across 3 terms)	app2enrf.fex M.P.	12,412	14,404	13,626	12,785	13,807								
	# of new applicants who enrolled (totalled across 3 terms)	app2enrf.fex M.P.	8,101	8,135	8,111	7,375	7,771								
	# of new applicants who enrolled / # of new applicants		65%	57%	60%	58%	56%								



		Agency reported to	INFO. SOURCE	98-99	99-00	00-01	01-02	02-03	Benchmark	Benchmark Source	Benchmark met?				
Retention Rates	In-semester Completer or Persistence Yield rate (pass min. one class with D or above—did not drop, withd or fail all courses)		Persistence & attrition rate by mode, M.P.					80.1%							
	Fall to Spring (Retained or graduated) - raw number		M.P. Termenrl.fex,P ROBGRAD.fex, Excel, Access	4048 + 224 grads of 7492	4066 + 188 grads of 7514	4006 +150 grads of 7447	4095 + 206 grads of 7252	4575 + 206 grads of 7871							
	Fall to Spring (Retained or graduated) % of total Fall enrollment			57%	57%	56%	59%	61%							
Degrees/Certificate Granted	All degrees & certificates	CCHE IPEDS	Grad_fin.fex FTP to excel	836	747	728	845	811							
	Vocational degrees & certificates						647								
VOCATIONAL Graduate Placement Rate	# of respondents to survey	CCHE	Graduate Employment Status Survey administered by the Career Ctr				339								
	# respondents employed in a job related to ACC training	CCHE					244 (66%)								
	# respondents employed in a job NOT related to ACC training	CCHE					61 (18%)								
Academic Probation/Suspension rates	# of academic probation students		Focus,Excel, Access, M.P.	194	204	195	231	258							
	Probation student retention rate			42.80%	42.20%	59%	44.20%	42.20%							
	# of students placed on academic suspension			57	67	95	82	80							
	Suspension student retention rate			21.10%	17.90%	69.50%	23.20%	25.00%							

		Agency							Benchmark	Benchmark						
		reported to	INFO. SOURCE	98-99	99-00	00-01	01-02	02-03	Benchmark	Source	met?					
High School co-enrolls	Unduplicated headcount		hs_by_yr.fex L.C.	919	1247	1315	989	816	not established							
	annualized FTE		hs_by_yr.fex L.C.	166	222	248	209	168	not established							
High School conversion rates (for high schools within service area)	% of Recent High Graduates who enrolled for Fall Semester						6%	7%								
Financial Aid Awards	Amount of Financial Aid Awarded		Fin. Aid. J.C.	4,532,424	4,984,214	4,953,639	6,595,291	8,556,900								
	Financial Aid Applicants		Fin. Aid. J.C.	2,871	3,059	3,220	3,889	4,210								
	# of students awarded Financial Aid		Fin. Aid. J.C.	1864	1878	1977	2425	2430								
% of class sections offered at non-traditional times (meet other than between 8am-4:30pm, M-F)	CCCS	QIS				61%	61%	38.8%	QIS	Yes						
% of students expressing satisfaction with instruction	From Graduate survey	CCCS	QIS				98%	99%	93.8%	QIS	Yes					

The following data are cohort-based

Cohort definition: first-time to college, full-time, degree-seeking students enrolled for each Summer/Fall make up this cohort which is tracked by Colorado Commission of Higher Education for QIS (Quality Indicator Report).

		Agency reported to	Info. Source	1996 cohort	1997 cohort	1998 cohort	1999 cohort	2000 cohort	Benchmark	Benchmark Source	Benchmark met?
Cohorts	# of students in cohort	supplied by CCHE	Cohort Grad Rates - QIS	355	295	295	285	241	n/a		
	# in Minority Cohort	supplied by CCHE	cohort grad rates - QIS	61	46	42	44	30	n/a		
Cohort Graduation Rates	# from cohort who graduated or transferred in 3.25 years or less	supplied by CCHE	Cohort Grad Rates - QIS	91	46	60			n/a		
	Percent of graduates (graduation rate)		Internal Calc	25.6%	15.6%	20.3%			21%	set by CCCS via QIS	No
	cohort # who did not graduate	supplied by CCHE	Cohort Grad Rates - QIS	264	249	235			n/a		
	minority cohort # who graduated in 3.25 years or less	supplied by CCHE	Cohort Grad Rates - QIS	14	1	8			n/a		
	Minority Cohort graduation rate		Internal Calc	23.0%	2.2%	19.0%			12.9	set by CCCS via QIS	Yes

		Agency reported to	Info. Source	1996 cohort	1997 cohort	1998 cohort	1999 cohort	2000 cohort	Benchmark	Benchmark Source	Benchmark met?
Cohort Retention Rates	Retained or graduated at ACC one year after entry	provided by CCHE	Cohort Success Rates, QIS			135	154	116	n/a		
	ACC Retention Rate		Internal Calc			45.8%	54.0%	48.1%	55.10%	set by CCCS via QIS	No
	Transferred	provided by CCHE	Cohort Success Rates, QIS			37	25	29	n/a		
	Overall Cum Retention Rate (includes transfers)	provided by CCHE	Cohort Success Rates, QIS			58.3%	62.8%	60.2%	64.1%	set by CCCS via QIS	No
	Not graduated nor retained	provided by CCHE	Cohort Success Rates, QIS			123	106	96	n/a		
	Minority student graduate or retained at ACC one year after entry					17	24	14	n/a		
	ACC Minority Retention Rate					40.5%	54.5%	46.7%	55.6%	set by CCCS via QIS	No
	Minority Transfer					4	5	2	n/a		
	Overall Cum Minority Retention Rate					50.0%	65.9%	53.3%	67.2%	set by CCCS via QIS	No
	Minorities Not graduated nor retained					21	15	14	n/a		

Detailed Reports

ACC Ethnic-Minority Student Rates and Age Trends

ACC Minority Student Rates

Historically, ACC Environmental Scan data have been pulled from census data for a tri-county area: Arapahoe, Douglas, and Jefferson (figure 1).

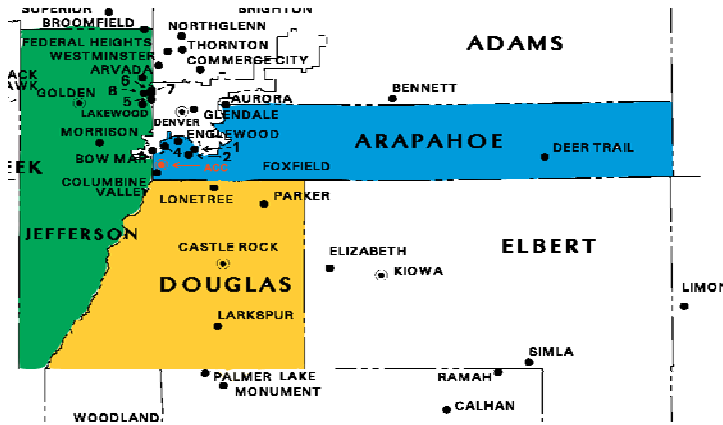


Figure 1

However, ACC's service area as defined in statute (C.R.S. 23-60-201) is not limited to nor encompasses the entire tri-county area (see figure 2). The 2001 ACC Environmental Scan Report (ESR) reaches conclusions about ACC's future student make-up based on the tri-county data. In an effort to affirm or refute the ethnic-minority rate data provided in the ESR, Ms. Margaret Puryear, Office of Institutional Research, used new census bureau techniques to pull ethnic-minority information for ACC's true service area as outlined below (figure 2).

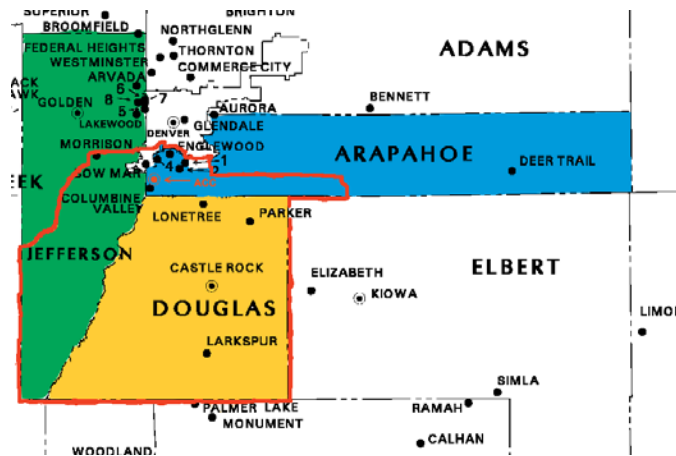


Figure 2

The resulting difference was significant.

Does ACC serve its service-area ethnic-minority residents? Based on the tri-county area, ACC fell short in service to both the Black and Hispanic populations. (see Tables 1 & 2).

Table 1

Three County Totals	
US Census 2000	Percent
Asian	3.0%
Black or African American	3.7%
Hispanic or Latino	10.0%
American Indian	0.7%
Total	17.4%

Table 2

Arapahoe Community College	
ACC Students year 2001-2002	Percent
Asian Students	4.0%
Black or African American Students	2.0%
Hispanic or Latino Students	8.0%
American Indian Students	1.0%
Total	15.0%

The percent of minorities in the three-county area totaled 17.4% as shown in Table 1. Pulling the data for ACC's true service area we see that the actual percent of minority residents totals 10.1% (Table 3). Taking the service-area data and comparing with ACC minority student rates (Tables 3 & 4); we can conclude that, **in fact, ACC has served more ethnic-minority students in each category than are indicated by the service area population data.**

Table 3

Service Area for Arapahoe Community College	
US Census 2000	Percent
Asian	2.2%
Black or African American	1.0%
Hispanic or Latino	6.4%
American Indian	0.5%
Total	10.1%

Table 4

Arapahoe Community College	
ACC Students year 2001-2002	Percent
Asian Students	4.0%
Black or African American Students	2.0%
Hispanic or Latino Students	8.0%
American Indian Students	1.0%
Total	15.0%

Age Trends

The 2001 Environmental Scan Report stated: "we can predict that over the next ten years or so the populations for Arapahoe, Douglas, and Jefferson Counties reaching the ages of 60 and over will be far greater than the portions of the population who reach the ages of 20 or more."

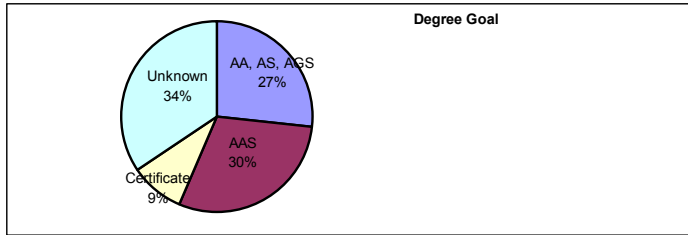
Should ACC shift focus from "traditional" age students to providing more academic opportunities and services for students age 60 and over? Dr. Suzanne Larsh, Office of Institutional Research, performed a separate age analysis based on population data from 2003 and projected for 2013 collected from the Colorado Department of Local Affairs. Since age data and projections are provided by county only, the tri-county area was used for this analysis. In summary, the tri-county area will experience an overall population increase by the year 2013. This increase affects two broad age groups that may be considered potential ACC student population pools. The first group aged 15 to 29 will increase proportionally by a modest 1.91%, but this increase corresponds with a quantitative increase of 71,796 people. The second group, aged 50 to 74, will increase by 44,062, a proportional increase of 6.45%. While this older group's proportional increase is greater, the quantitative increase is comparatively less than the increase in the younger age group. **Therefore, a two-pronged approach to strategic planning based on this population trend analysis is apparent, prepare to provide courses for an increasingly large group of "traditional age" prospective students, and provide courses and services for the group of older community members that will be proportionally larger than currently experienced in the tri-county region.**

ACC General Demographics based on Fall 2003 Enrollments

03F: 7884 Enrolled Students

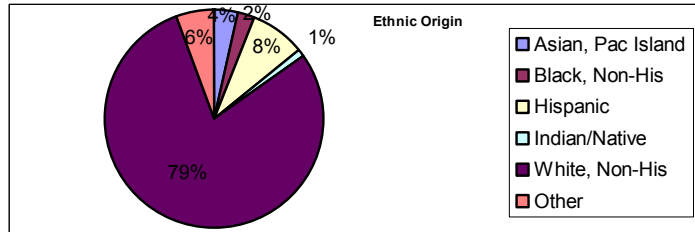
Degree Goal at ACC

AA, AS, AGS	2098
AAS	2354
Certificate	719
Unknown	2713
	7884



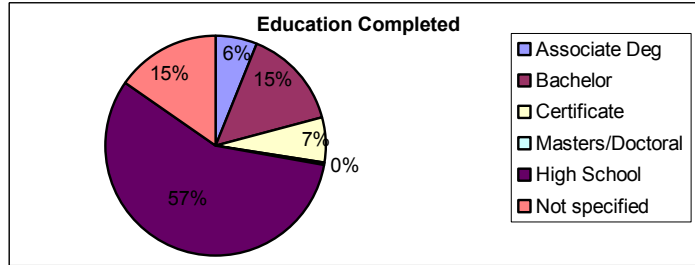
Ethnic Origin

Asian, Pac Island	288
Black, Non-His	184
Hispanic	640
Indian/Native	97
White, Non-His	6233
Other	442
	7884



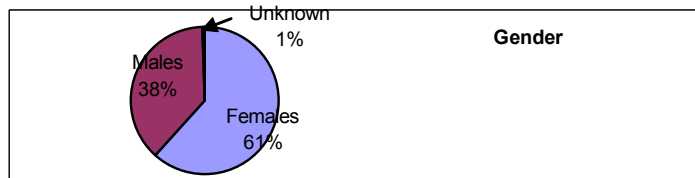
Education Completed

Associate Deg	485
Bachelor	1156
Certificate	525
Masters/Doctoral	25
High School	4478
Not specified	1215
	7884



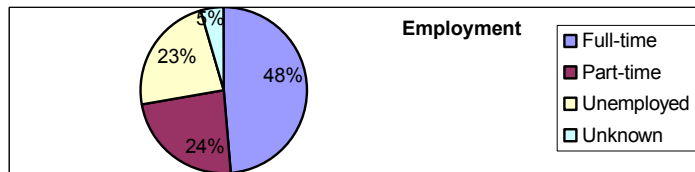
Gender

Females	4862
Males	2979
Unknown	43
	7884



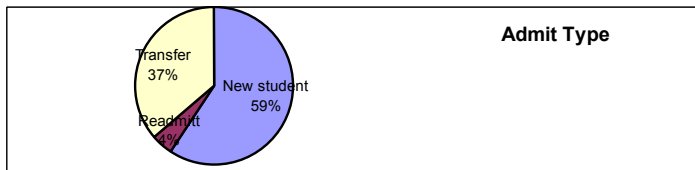
Employment

Full-time	3841
Part-time	1857
Unemployed	1825
Unknown	361
	7884



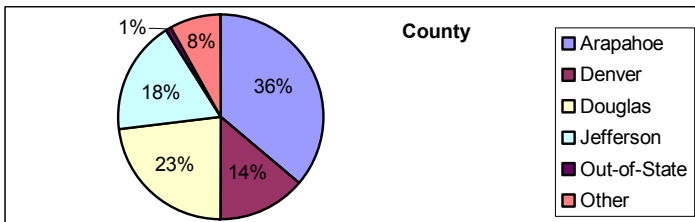
Admit Type

New student	4654
Readmitt	352
Transfer	2878
	7884



County

Arapahoe	2838
Denver	1104
Douglas	1813
Jefferson	1419
Out-of-State	79
Other	631
	7884

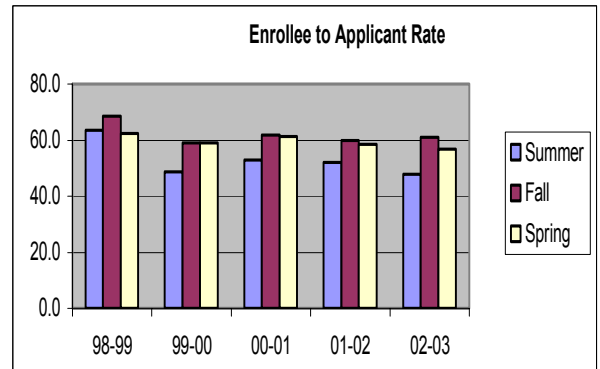


Applicant Yield Rate

Compiled by Margaret Puryear, Office of Institutional Research

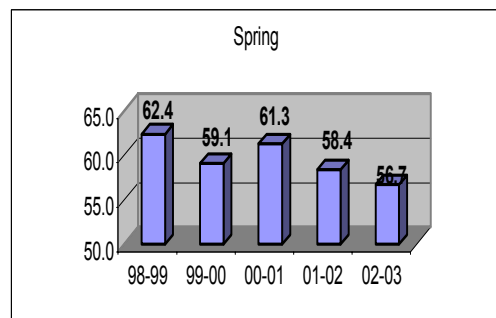
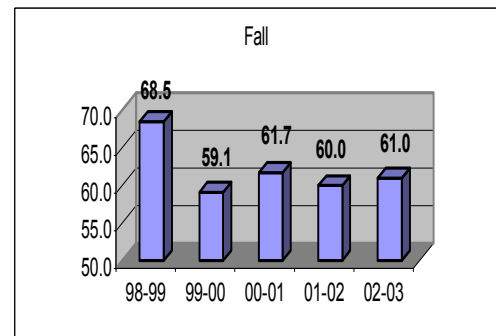
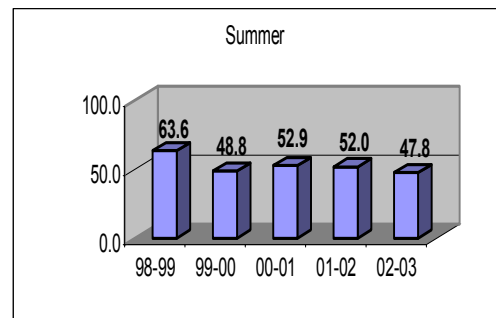
Percentage of students who applied and subsequently enrolled.

	98-99	99-00	00-01	01-02	02-03
Summer	63.6	48.8	52.9	52.0	47.8
Fall	68.5	59.1	61.7	60.0	61.0
Spring	62.4	59.1	61.3	58.4	56.7



Raw Data:

Date	Semester	Applied	Enrolled	Percent
Jun-98	99m	2613	1663	63.6%
Aug-98	99f	5265	3608	68.5%
Jan-99	99s	4534	2830	62.4%
FY99 Total		12412	8101	65.3%
Jun-99	00m	3487	1686	48.4%
Aug-99	00f	5984	3534	59.1%
Jan-00	00s	4933	2915	59.1%
FY00 Total		14404	8135	56.5%
Jun-00	01m	3126	1653	52.9%
Aug-00	01f	5913	3647	61.7%
Jan-00	01s	4587	2811	61.3%
FY01 Total		13626	8111	59.5%
Jun-02	02m	2850	1483	52.0%
Aug-02	02f	5414	3251	60.0%
Jan-02	02s	4521	2641	58.4%
FY02 Total		12785	7375	57.7%
Jun-02	03m	3466	1658	47.8%
Aug-02	03f	5776	3525	61.0%
Jan-03	03S	4565	2588	56.7%
FY03 Total		13807	7771	56.3%



The following numbers for Degrees/Certificates awarded are based on ACC Data. Numbers will not always match CCHE information.		# of awards	# of awards	# of awards	# of awards	# of awards	# of awards
Degree	Major	97-98	98-99	99-00	00-01	01-02	02-03
ASSOCIATE OF APPLIED SCIENCE	ACCOUNTING	13	6	10	15	9	10
ASSOCIATE OF APPLIED SCIENCE	ADMINISTRATIVE ASSISTANT	7	1	4	2	2	5
ASSOCIATE OF APPLIED SCIENCE	ARCHITECTURAL TECHNOLOGY	5	3	2	8	6	3
ASSOCIATE OF APPLIED SCIENCE	AUTOMOTIVE SERVICE TECH-ASEP	0	0	1	0	0	0
ASSOCIATE OF APPLIED SCIENCE	AUTOMOTIVE SERVICE TECH-ATEC	0	0	0	0	0	0
ASSOCIATE OF APPLIED SCIENCE	AUTOMOTIVE SERVICE TECHNOLOGY	15	14	9	12	4	6
ASSOCIATE OF APPLIED SCIENCE	BUSINESS ADMINISTRATION	13	8	6	14	16	21
ASSOCIATE OF APPLIED SCIENCE	COMMUNICATION TECHNOLOGY	4	4	7	6	6	4
ASSOCIATE OF APPLIED SCIENCE	COMPUTER INFORMATION SYSTEMS	13	10	17	21	10	9
ASSOCIATE OF APPLIED SCIENCE	COMPUTER NETWORK TECHNOLOGY	0	0	0	0	3	14
ASSOCIATE OF APPLIED SCIENCE	CONSTRUCTION SUPERVISION	1	1	0	0	2	1
ASSOCIATE OF APPLIED SCIENCE	CONVERGENT TECHNOLOGIES	0	0	0	0	0	7
ASSOCIATE OF APPLIED SCIENCE	CRIMINAL JUSTICE	11	20	7	6	8	3
ASSOCIATE OF APPLIED SCIENCE	ELECTRONICS ENGINEERING TECHNOLOGY	7	3	3	5	2	5
ASSOCIATE OF APPLIED SCIENCE	ENVIRONMENTAL & WASTE MGMT	0	0	0	1	0	0
ASSOCIATE OF APPLIED SCIENCE	ENVIRONMENTAL & SAFETY TECH	2	0	3	0	2	0
ASSOCIATE OF APPLIED SCIENCE	FINANCIAL SERVICES	0	0	0	0	0	1
ASSOCIATE OF APPLIED SCIENCE	GRAPHIC DESIGN & ILLUSTRATION	13	18	14	11	17	12
ASSOCIATE OF APPLIED SCIENCE	HEALTH INFORMATION TECHNOLOGY	4	2	9	8	9	9
ASSOCIATE OF APPLIED SCIENCE	TRAVEL & HOSPITALITY MGMT	4	10	9	4	0	0
ASSOCIATE OF APPLIED SCIENCE	INTERIOR DESIGN	47	39	37	34	37	31
ASSOCIATE OF APPLIED SCIENCE	INTERNATIONAL BUSINESS	3	0	0	0	0	0
ASSOCIATE OF APPLIED SCIENCE	INVESTMENTS	0	1	0	1	0	0
ASSOCIATE OF APPLIED SCIENCE	LEGAL SECRETARY	1	0	2	0	0	0
ASSOCIATE OF APPLIED SCIENCE	MANAGEMENT	11	4	5	5	7	9
ASSOCIATE OF APPLIED SCIENCE	MARKETING	1	2	1	0	0	0
ASSOCIATE OF APPLIED SCIENCE	MECHANICAL DESIGN & DRAFTING TECH	3	1	1	0	0	0

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ASSOCIATE OF APPLIED SCIENCE	MEDICAL LABORATORY TECHNOLOGY	8	4	7	2	1	5
ASSOCIATE OF APPLIED SCIENCE	MORTUARY SCIENCE	7	19	10	21	13	30
ASSOCIATE OF APPLIED SCIENCE	MEDICAL OFFICE TECHNOLOGY (aka MOA)	2	5	3	2	3	2
ASSOCIATE OF APPLIED SCIENCE	NURSING	68	69	74	46	41	40
ASSOCIATE OF APPLIED SCIENCE	OCCUPATIONAL THERAPY ASST	18	9	9	7	6	0
ASSOCIATE OF APPLIED SCIENCE	PARALEGAL	19	21	10	17	21	23
ASSOCIATE OF APPLIED SCIENCE	PARAMEDIC	0	1	0	0	0	0
ASSOCIATE OF APPLIED SCIENCE	PHYSICAL THERAPIST ASSISTANT	22	31	31	20	15	10
ASSOCIATE OF APPLIED SCIENCE	PN TO RN	0	0	0	13	18	14
ASSOCIATE OF APPLIED SCIENCE	TRAVEL & TOURISM MANAGEMENT	0	0	0	1	4	1
ASSOCIATE OF ARTS		119	124	90	105	70	65
ASSOCIATE OF GENERAL STUDIES	BROADBAND	0	0	0	0	5	4
ASSOCIATE OF GENERAL STUDIES	ENGINEERING TECHNOLOGIES	0	0	0	1	0	0
ASSOCIATE OF GENERAL STUDIES		50	61	61	66	46	31
ASSOCIATE OF SCIENCE		28	18	17	17	15	22
CERTIFICATE	ADMINISTRATIVE SUPPORT SPECIALIST	4	0	4	7	5	4
CERTIFICATE	ACTIVITY PROFESSIONAL TRAINING	1	0	0	0	0	4
CERTIFICATE	ARCHITECTURAL CONTRACTS & MATERIALS	0	0	0	0	1	0
CERTIFICATE	ARCHITECTURAL DRAFTING	1	2	0	4	2	1
CERTIFICATE	AUTOMOTIVE SERVICE MGMT	0	1	1	2	0	0
CERTIFICATE	AUTOMOTIVE SERVICE TECHNOLOGY	1	7	2	5	3	2
CERTIFICATE	BUILDING MATERIALS	1	0	0	0	0	0
CERTIFICATE	BOOKKEEPING AND OFFICE	0	1	1	3	1	1
CERTIFICATE	BROADBAND	0	0	0	3	102	0
CERTIFICATE	BROADBAND TECHNICAL MANAGEMENT	0	0	0	0	0	99
CERTIFICATE	BROADBAND DIGITAL MANAGEMENT	0	0	0	0	0	7
CERTIFICATE	BROADBAND TELEPHONY	0	0	0	0	0	8

The following numbers for Degrees/Certificates awarded are based on ACC Data. Numbers will not always match CCHE information.		# of awards	# of awards	# of awards	# of awards	# of awards	# of awards
CERTIFICATE	CISCO	0	0	0	3	4	1
CERTIFICATE	CLINICAL ASSISTANT	0	0	0	0	1	6
CERTIFICATE	C.N.A.	40	37	78	27	1	0
CERTIFICATE	COMMUNICATION TECHNOLOGY	0	0	0	0	0	2
CERTIFICATE	COMPUTER AIDED DRAFTING	2	1	2	11	7	8
CERTIFICATE	COMPUTER GRAPHICS	0	1	4	7	14	10
CERTIFICATE	COMPUTER PROGRAMMING	0	5	8	10	6	4
CERTIFICATE	COMPUTER TECHNICIAN	12	20	15	9	10	8
CERTIFICATE	CONTEMPORARY MANAGEMENT	0	0	0	0	25	8
CERTIFICATE	CONSTRUCTION MANAGEMENT	1	0	0	0	0	0
CERTIFICATE	EARLY CHILDHOOD PROFESSIONS DIR	0	0	1	7	2	8
CERTIFICATE	EARLY CHILDHOOD PROFESSIONS GROUP	0	0	5	7	9	5
CERTIFICATE	ELECTRONICS ASSEMBLER	0	0	0	0	0	3
CERTIFICATE	ELECTRONICS ENGINEERING TECHNOLOGY	2	2	1	2	1	1
CERTIFICATE	EMERGENCY MEDICAL TECHNICIAN	29	2	0	0	1	1
CERTIFICATE	FIRE ACADEMY	48	82	42	0	58	26
CERTIFICATE	FINANCIAL SERVICES	0	0	0	0	0	2
CERTIFICATE	FLIGHT ATTENDANT	8	0	0	0	0	0
CERTIFICATE	GRAPHIC DESIGN & ILLUSTRATION	2	2	0	2	1	2
CERTIFICATE	HAZARDOUS MATERIALS TECH	0	0	0	1	1	0
CERTIFICATE	HUMAN SERVICE TECHNICIAN	1	0	0	0	0	0
CERTIFICATE	HUMAN RESOURCES MANAGEMENT		0	0	0	12	5
CERTIFICATE	HUMAN RESOURCES MANAGEMENT SPEC	2	3	4	3	3	5
CERTIFICATE	ICD-9-CM/CPT CODING	0	0	0	13	9	7
CERTIFICATE	INTERIOR ARCHITECTURE	0	0	0	0	0	0
CERTIFICATE	INTL TRADE SPECIALIST	3	0	0	0	0	0
CERTIFICATE	INVESTMENTS	0	1	1	1	0	0
CERTIFICATE	LAW ENFORCEMENT ACADEMY	82	94	60	71	68	75
CERTIFICATE	MEDICAL ADMIN ASST	3	0	5	0	0	1

The following numbers for Degrees/Certificates awarded are based on ACC Data. Numbers will not always match CCE information.		# of awards	# of awards	# of awards	# of awards	# of awards	# of awards
CERTIFICATE	MARKETING	1	1	1	0	0	0
CERTIFICATE	MARKETING SPECIALIST	0	0	0	1	0	0
CERTIFICATE	MGMT FOR PROF & TECH EMPLOYEES	2	0	1	3	4	1
CERTIFICATE	MECHANICAL DRAFTING	1	0	0	0	0	0
CERTIFICATE	MICROCOMPUTER SPECIALIST	10	8	9	9	8	4
CERTIFICATE	MEDICAL OFFICE TECHNOLOGY	3	5	2	0	1	1
CERTIFICATE	NETWORK SPECIALIST	0	0	0	0	2	0
CERTIFICATE	ORGANIZATIONAL BEHAVIOR	0	0	0	0	16	6
CERTIFICATE	PARALEGAL	13	20	22	18	17	15
CERTIFICATE	PHARMACY TECHNICIAN	10	6	5	14	2	19
CERTIFICATE	PHLEBOTOMY	0	0	0	0	16	18
CERTIFICATE	PROJECT MANAGEMENT	0	0	0	0	0	11
CERTIFICATE	REFRIGERATION & AIR CONDITIONING	7	3	0	0	0	0
CERTIFICATE	ENTREPRENEURSHIP	0	0	2	1	0	0
CERTIFICATE	SECRETARIAL SCIENCE	0	0	0	0	0	0
CERTIFICATE	SUPERVISORY MANAGEMENT	1	1	1	0	0	0
CERTIFICATE	SUPERVISION	0	0	0	0	23	11
	TELECOMMUNICATIONS ENGINEERING	0	0	0	1	0	1
	TRAVEL MARKETING & MGMT	3	3	1	1	0	0
CERTIFICATE	TRAVEL AND TOURISM	20	19	10	11	11	9
CERTIFICATE	VENDOR SERVICE TECHNICIAN	0	0	0	0	0	3
CERTIFICATE	WEB AUTHORING	0	0	0	0	0	1
TOTAL		833	836	747	728	845	811

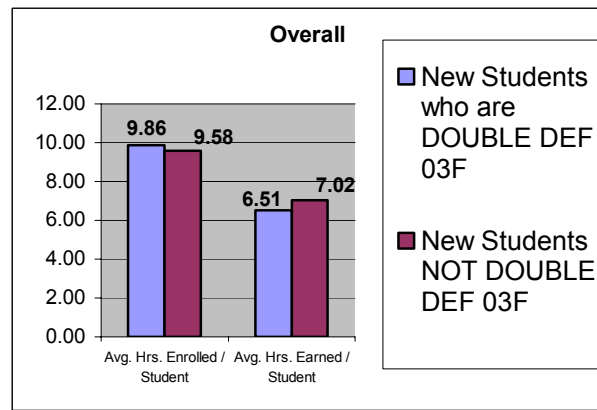
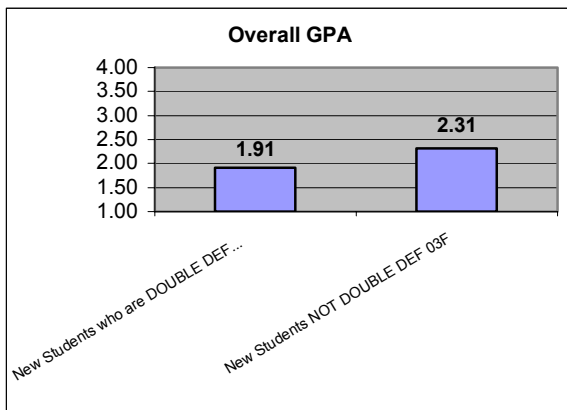
Doubly Deficient Report
Office of Institutional Research
Compiled by Margaret Puryear

Purpose: To determine if ACC would be justified in mandating course placement and/or Academic Success courses for students who score below cut scores (a.k.a. below college level) in two or more of the test modules: Reading, Writing, Arithmetic. The following questions were asked:

1. How many new enrolled students who took or submitted placement scores did not meet the cut score (college level) for two or more of the placement areas? **Answer:** as **highlighted** in the below table, 284 or 28% of the new students who tested and enrolled are considered "doubly-deficient".

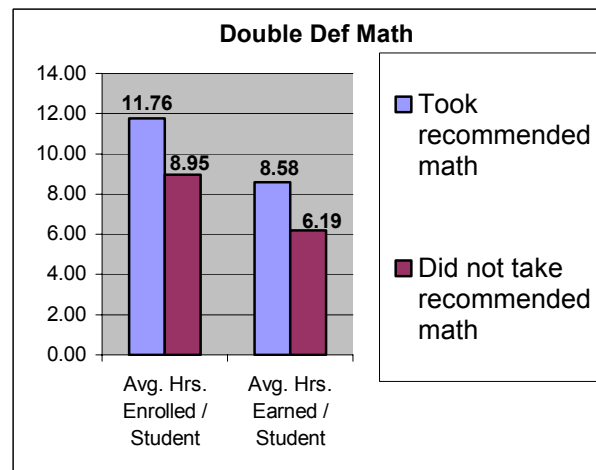
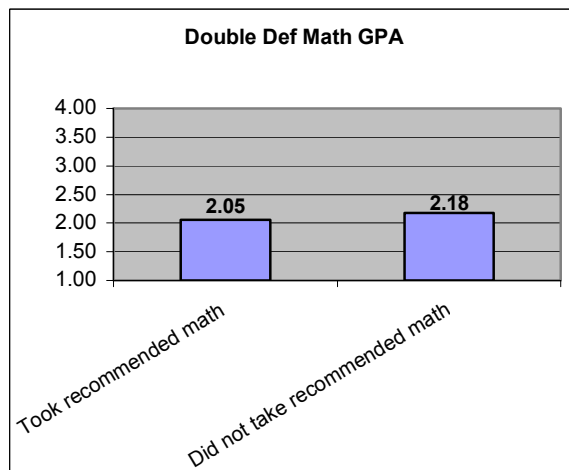
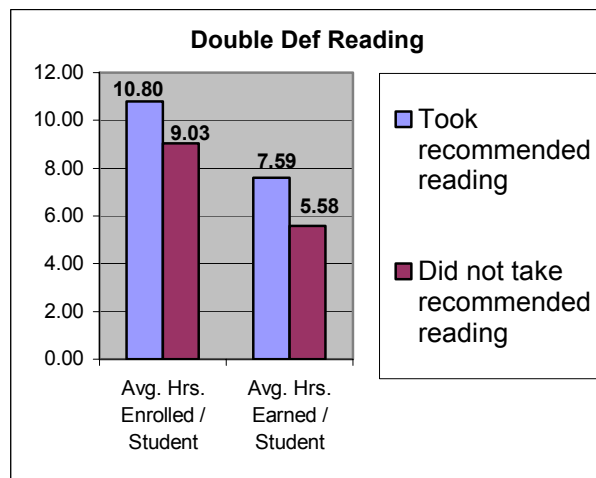
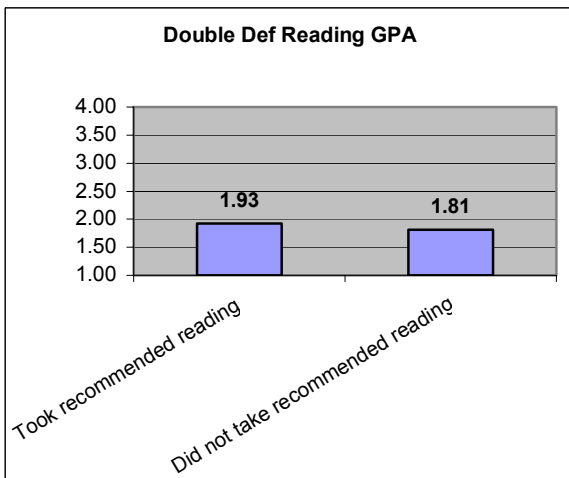
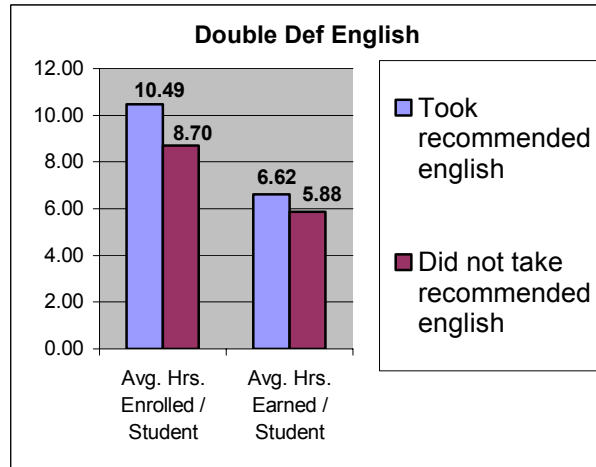
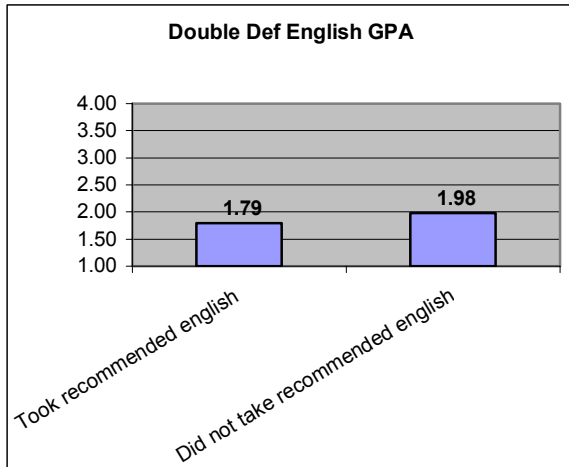
	Count	GPA	Total Hrs. Enrolled	Enrolled / Student	Total Hrs. Earned	Earned / Student
New Students That Tested	1382					
New Students That Tested and Enrolled	1011					
New Students who are DOUBLE DEF 03F	284	1.91	2800	9.86	1848	6.51
New Students NOT DOUBLE DEF 03F	727	2.31	6963	9.58	5106	7.02

2. For the doubly-deficient students found in #1, what are the average credit hours attempted, average credit hours earned and average semester GPA compared to all other new students who tested but were not doubly deficient? **Answer:** As shown in the above table and below charts, students who tested doubly-deficient performed below students who were not doubly-deficient.



3. Separate the doubly-deficient students into "those students who took the recommended remedial courses" versus "those who did not". How do the two groups compare? **Answer:** As shown in the below tables and charts, the results were mixed.

Of the Doubly Deficient - 236 Needed Remedial English						
Took recommended english	138	1.79	1447	10.49	914	6.62
Did not take recommended english	98	1.98	853	8.70	576	5.88
<i>Took other than recommended english</i>	3	1.65	40	13.33	23	7.67
Of the Doubly Deficient - 259 Needed Remedial Reading						
Took recommended reading	123	1.93	1328	10.80	934	7.59
Did not take recommended reading	136	1.81	1228	9.03	759	5.58
Of the Doubly Deficient - 148 Needed Remedial Math						
Took recommended math	62	2.05	729	11.76	532	8.58
Did not take recommended math	86	2.18	770	8.95	532	6.19
<i>All enrolled 03F math tested low</i>	394	2.23	3922	9.95	2746	6.97



Conclusion by Lin Claussen: looking at the overall comparisons, ACC has initial data that demonstrates, as expected, that students who test doubly-deficient perform at a lower level than students who are not doubly-deficient; therefore, mandating placement and/or academic success courses has some justification. However, further analysis of the above data to determine significance and correlations should be done to develop a clearer picture of student performance. This will be included in Enrollment Management goals for 03-04.

		01-02 to 02-03 Site/Mode Comparison												
		The below FTE numbers include BOTH countable and non-countable FTE EXCEPT NCTI.												
Hybrid course enrollments increased by 225%, web-based enrollments increased by 37%, Clinics have increased by 215%, Main campus FTE increased by 11%, Art & Design Center increased 10%, Triad increased 15%, UCC increased 46%, CCCOnline increased 46%, and ACCOnline increased by 33%. Independent Studies increased by 621% Non-countable FTE increased by 51%. The Colorado Computer Center decreased in FTE by 70%. Telecourse decreased by 31%. Computer labs, Flex, and self-paced have decreased by 13%, 16% and 37% respectively.														
MODEv	SITE>	02-03 ACC Main Campus (AC)	02-03 Art & Design Center (AD)	02-03 Colo.Computer Center (CO)	02-03 Employee Dev Acad or Cr (EC)	02-03 Enhanced Labs (ED)	02-03 High School (HS)	02-03 Triad (TR)	02-03 UCC (UC)	02-03 CCC Online (CC)	02-03 Misc. off- site Location (S1)	02-03 TOTALS	01-02 TOTALS	%change from 01-02 to 02-03
FY 03														
	Traditional (blank)	5190.61	900.43	19.82	7.21		25.04	180.08	157.86		178.8	6659.85	6442	3%
	Accelerated (AC)	334.16	3.6					84.8	6.2			428.76	376.56	14%
	HS contract-taught at HS (C2)						13.47					13.47	6.17	
	Additional 3rd party costs (C5)			2.2							131.71	133.91	76.14	76%
	Computer Lab (CL)	254.81						22.81	12.27			289.89	334.17	-13%
	Clinic (CN)	7.8									101.72	109.52	34.74	215%
	Coop/Internship (CP)	20.15						2.33			54.11	76.59	42	82%
	Flex and open registration (FL)	107.9						1.31	0.39		1.33	110.93	124.98	-11%
	Hybrid (HY)	231.41	7.4					2.2	29.07		2.7	272.78	83.96	225%
	Individualized Computer Lab (IC)	12.56										12.56	5.46	130%
	Independent Study (IS)	21.72	4.5					4.32			16.03	46.57	6.46	621%
	Multi-Media (MM)	2.8										2.8		
	Other (OT)											0	1.56	
	Private Lessons (PL)	22.34									2.4	24.74	20.13	23%
	Prior Learning (PR)										5.01	5.01	6.8	-26%
	Self-paced (SP)	77.34	66.47					5.39	0.07		0.86	150.13	237.62	-37%
	Telecourse (TL)	74.2										74.2	108.2	-31%
	Web based (WW)	663.71	40	0.66				6.8	2.2	381.79		1085.16	789.4	37%
	Totals:	7011.51	1022.4	22.68	7.21	0	38.51	310.04	208.06	381.79	494.67	9496.87	8696.35	9%
	01-02 Totals:	6333.61	929.48	75.25	9.8	229.95	22.2	269.84	142.29	260.98	422.95			
	% Change from 01-02 to 02-03:	11%	10%	-70%	-26%	-100%	73%	15%	46%	46%	17%			
	NCTI (NC) - not included in above numbers											3028.5	3275.02	-8%
	Other non-countable FTE (are included in above numbers)											106.6	70.71	51%
FY 02														
MODEv	SITE>	01-02 ACC Main Campus (AC)	01-02 Art & Design Center (AD)	01-02 Colo.Computer Center (CO)	01-02 Employee Dev Acad or Cr (EC)	01-02 Enhanced Labs (ED)	01-02 High School (HS)	01-02 Triad (TR)	01-02 UCC (UC)	01-02 CCC Online (CC)	01-02 Misc. off- site Location (S1)	01-02 TOTALS		
	Traditional (blank)	4829.06	906.04	47.78	9.8	110.32	16.8	182.15	118.29	1.26	220.5	6442		
	Accelerated (AC)	211.83		16.3				59.58	1.6			376.56		
	HS contract-taught at HS (C2)	0.77					5.4					6.17		
	Additional 3rd party costs (C5)			4.8							71.34	76.14		
	Computer Lab (CL)	310.96						10.21	13			334.17		
	Clinic (CN)	9.31									25.43	34.74		
	Coop/Internship (CP)	36.77	1.8					1.9			1.53	42		
	Flex and open registration (FL)	124.14									0.84	124.98		
	Hybrid (HY)	82.56							1.4			83.96		
	Individualized Computer Lab (IC)	5.46										5.46		
	Independent Study (IS)	5.58	0.88									6.46		
	Multi-Media (MM)													
	Other (OT)										1.56	1.56		
	Private Lessons (PL)	18.59									1.54	20.13		
	Prior Learning (PR)		0.4								6.4	6.8		
	Self-paced (SP)	98.26	2.56	0.91		119.63		15			1.26	237.62		
	Telecourse (TL)	108.2										108.2		
	Web based (WW)	492.12	17.8	5.46				1	8	259.72	5.3	789.4		
	Totals:	6333.61	929.48	75.25	9.8	229.95	22.2	269.84	142.29	260.98	422.95	8696.35		
	NCTI (NC) - not included in above numbers											3275.02		
	Other non-countable FTE (are included in above numbers)											70.71		

Summer to Summer Site/Mode Comparison											
The below FTE numbers include BOTH countable and non-countable FTE EXCEPT NCTI.											
Hybrid jumped from 5 FTE to 32.6 FTE (552% increase); Telecourse decreased by 14%; Web-based FTE went up 45%; Main campus FTE went up 9%; Art & Design Center went up 6%; Colorado Computer Center went down 83%; Triad went down 24%; UCC went down 39%; CCCOnline courses increased by 34%.											
Summer 02-03 (03M)											
	ACC Main	Art & Design	Colo. Computer				Misc. off-site	03M	02M	%change	
MODEv	SITE>	Campus (AC)	Center (AD)	Center (CO)	Triad (TR)	UCC (UC)	CCC Online (CC)	location (S1)	TOTALS	TOTALS	02M to 03M
Traditional (blank)		534.63	88.3	4.86	18.08	9.42		4.18	659.47	678.7	-3%
Accelerated (AC)		45.97							45.97	0	0%
Additional 3rd party costs (C5)								109.45	109.45	87.45	25%
Computer Lab (CL)		32.3			3.04	2.2			37.54	112.35	-67%
Clinic (CN)								7.49	7.49	14	-47%
Coop/Internship (CP)		5.47			0.33			27.97	33.77	4.89	591%
Flex and open registration (FL)		25.94							25.94	27.36	-5%
Hybrid (HY)		26.1	3.8					2.7	32.6	5	552%
Individualized Computer Lab (IC)		6.44							6.44	0	0%
Independent Study (IS)		4.52	0.54						5.06	0	0%
Private Lessons (PL)		1.56							1.56	0.2	680%
Prior Learning (PR)								0.07	0.07	0	0%
Self-paced (SP)		25.61	2.4		2.79			0.66	31.46	28.82	9%
Telecourse (TL)		9.6							9.6	11.2	-14%
Web based (WW)		95.63	12	0.13	0.4		80.74		188.9	130.34	45%
Totals:		813.77	107.04	4.99	24.64	11.62	80.74	152.52	1195.32		#DIV/0!
02M Totals:		748.35	100.76	29.03	32.27	18.95	60.06	110.89		1100.31	
% Change from 02M to 03M:		9%	6%	-83%	-24%	-39%	34%	38%			
NCTI (NC) - not included in above numbers								757.62	953	-21%	
Other non-countable FTE (are included in above numbers)								12.22	12.93	-5%	
Summer 01-02 (02M)											
	ACC Main	Art & Design	Colo. Computer				Misc. off-site	02M			
MODEv	SITE>	Campus (AC)	Center (AD)	Center (CO)	Triad (TR)	UCC (UC)	CCC Online (CC)	location (S1)	TOTALS		
Traditional (blank)		505.48	92.36	25.74	28.1	16.75		10.27	678.7		
Additional 3rd party costs (C5)				1.6				85.85	87.45		
Computer Lab (CL)		108.33			1.82	2.2			112.35		
Clinic (CN)		1.05						12.95	14		
Coop/Internship (CP)		4.68						0.21	4.89		
Flex and open registration (FL)		27.36							27.36		
Hybrid (HY)		5							5		
Private Lessons (PL)								0.2	0.2		
Prior Learning (PR)									0		
Self-paced (SP)		25.41	0.4		2.35			0.66	28.82		
Telecourse (TL)		11.2							11.2		
Web based (WW)		59.84	8	1.69			60.06	0.75	130.34		
Totals:		748.35	100.76	29.03	32.27	18.95	60.06	110.89	1100.31		
NCTI (NC) - not included in above numbers								953	953		
Other non-countable FTE (are included in above numbers)								12.93	12.93		

Fall to Fall Site/Mode Comparison

The below FTE numbers include BOTH countable and non-countable FTE EXCEPT NCTI.

Hybrid courses increased by 82%, web-based courses increased by 47%, FTE at Triad increased by 29%, FTE at UCC increased by 45%, CCOnline FTE increased by 51%.

Fall 2002-03 (03F)	ACC Main	Art & Design	Colo.Computer	Employee Dev	Enhanced	High				CCOnline	Misc. off-site	02F		%change from
MODEv	SITE>	Campus (AC)	Center (AD)	Center (CO)	Acad Cr (EC)	Labs (ED)	School (HS)	Triad (TR)	UCC (UC)	(CC)	location (S1)	TOTALS		02F to 03F
Traditional (blank)		2411.72	411.07	5.5	7.08		19.17	97.07	86.58		34.95	3073.14	2935.79	5%
Accelerated (AC)		124.99						46.2				171.19	118.39	45%
HS contract-taught at HS (C2)							6.94					6.94	2.47	181%
Additional 3rd party costs (C5)											22.26	22.26	74.54	-70%
Computer Lab (CL)		121.31						12.64	3.8			137.75	16.39	740%
Clinic (CN)											82.56	82.56	10.4	694%
Coop/Internship (CP)		6.21						1			0.14	7.35	9.35	-21%
Flex and open registration (FL)		48.49						1.18	0.26			49.93	56.05	-11%
Hybrid (HY)		67.84	3.6						4.4			75.84	41.67	82%
Individualized Comp Lab (IC)		6.12										6.12		
Independent Study (IS)		5.93	1.89					2.59				10.41		
Multi-Media (MM)		2.8										2.8		
Private Lessons (PL)		6.11										6.11	8.94	-32%
Prior Learning (PR)											1.87	1.87	1.53	22%
Self-paced (SP)		51.73						1.4	0.07		0.2	53.4	175.3	-70%
Telecourse (TL)		37.2										37.2	48.4	-23%
Web based (WW)		273.14	12.2					1.07	2.2	136.12		424.73	289.29	47%
03F Totals:		3163.59	428.76	5.5	7.08	0	26.11	163.15	97.31	136.12	141.98	4169.6		
02F Totals:		2789.11	404.31	26.15	0	119.63	16.47	126.66	67.08	90.21	148.89		3788.51	10%
% Change from 02F to 03F:		13%	6%	-79%		-100%	59%	29%	45%	51%	-5%			
NCTI (NC) - not included in above numbers												896.48	978.07	-8%
Other non-countable FTE as flagged on SPE screen (are included in above numbers)												43.52	4.53	861%

Fall 01-02 (02F)	ACC Main	Art & Design	Colo.Computer	Employee Dev	Enhanced	High				CCOnline	Misc. off-site	02F		
MODEv	SITE>	Campus (AC)	Center (AD)	Center (CO)	Acad Cr (EC)	Labs (ED)	School (HS)	Triad (TR)	UCC (UC)	(CC)	location (S1)	TOTALS		
Traditional (blank)		2290.69	400.77	22.04			14	88.87	57.48		61.94	2935.79		
Accelerated (AC)		86.48						30.31	1.6			118.39		
HS contract-taught at HS (C2)							2.47					2.47		
Additional 3rd party costs (C5)				3.2							71.34	74.54		
Computer Lab (CL)		16.39										16.39		
Clinic (CN)		0.35									10.05	10.4		
Coop/Internship (CP)		5.2	1.8					1.03			1.32	9.35		
Flex and open registration (FL)		55.21									0.84	56.05		
Hybrid (HY)		41.67										41.67		
Private Lessons (PL)		7.67									1.27	8.94		
Prior Learning (PR)											1.53	1.53		
Self-paced (SP)		45.97	1.74	0.91		119.63		6.45			0.6	175.3		
Telecourse (TL)		48.4										48.4		
Web based (WW)		191.08							8	90.21		289.29		
02F Totals:		2789.11	404.31	26.15		119.63	16.47	126.66	67.08	90.21	148.89	3788.51		
NCTI (NC) - not included in above numbers									978.07			978.07		
Other non-countable FTE (are included in above numbers)											4.53	4.53		

Spring to Spring Site/Mode Comparison

The below FTE numbers include BOTH countable and non-countable FTE EXCEPT NCTI.

Highlights: 1) A 10% increase at Triad. 2) A 76% increase at UCC. 3) CCCOnline continues its growth with a 49% increase. 4) ACCOnline = 284.94 compared to 241.2 last year which is an 18% increase. 5) An explosive growth in Hybrid of 341%. 6) Self-paced has almost doubled. 7) Telecourses have decreased by 44%. 8) a 44% decrease in computer labs and a 16% decrease in flex courses.

MODEv	SITE>	ACC Main	Colo.Comput	EmployeeDev	High			UCC	CCOnline	Misc Off-site (S1)	TOTALS	TOTALS	% change from	
		Campus (AC)	Art & Design Center (AD)	er Center (CO)	. Acad. Crd (EC)	Enhanced Labs (ED)	Schools(HS)							Triad (TR)
Spring 02-03(03S)												03S	02S	
Traditional (blank)		2244.26	401.06	9.46	0.13		5.87	64.93	61.86		139.67	2927.24	2827.51	4%
Accelerated (AC)		163.2	3.6					38.6	6.2			211.6	170.72	24%
HS contract-taught at HS (C2)							6.53					6.53	3.7	76%
Additional 3rd party costs (C5)				2.2								2.2	1.6	38%
Computer Lab (CL)		101.2					7.13	6.27				114.6	205.43	-44%
Clinic (CN)		7.8								11.67		19.47	10.34	88%
Coop/Internship (CP)		8.47						1		26		35.47	27.76	28%
Flex and open registration (FL)		33.47					0.13	0.13		1.33		35.06	41.57	-16%
Hybrid (HY)		137.47					2.2	24.67				164.34	37.29	341%
Individualized Computer Lab (IC)												0	5.46	-100%
Independent Study (IS)		11.27	2.07					1.73			16.03	31.1	6.46	381%
Other (OT)												0	1.56	-100%
Private Lessons (PL)		14.67								2.4		17.07	10.99	55%
Prior Learning (PR)										3.07		3.07	5.27	-42%
Self-paced (SP)			64.07					1.2				65.27	33.5	95%
Telecourse (TL)		27.4										27.4	48.6	-44%
Web based (WW)		284.94	15.8	0.53				5.33		164.93		471.53	369.77	28%
03S Totals:		3034.15	486.6	12.19	0.13	0	12.4	122.25	99.13	164.93	200.17	4131.95	3807.53	9%
02S Totals:		2796.15	424.41	20.07	9.8	110.32	5.73	110.91	56.26	110.71	163.17	3807.53		
% Change from 02S to 03S:		9%	15%	-39%	-99%	-100%	116%	10%	76%	49%	23%	9%		
NCTI (NC) - not included in above numbers									1374.4			1374.4	1343.95	2%
Other non-countable FTE							(are included in above numbers)					50.86	53.25	-4%
Spring 01-02 (02S)												02S		
MODEv	SITE>	Campus (AC)	Center (AD)	Center (CO)	(EC)	Labs (ED)	School (HS)	Triad (TR)	UCC (UC)	(CC)	location (S1)	TOTALS		
Traditional (blank)		2032.89	412.91		9.8	110.32	2.8	65.18	44.06	1.26	148.29	2827.51		
Accelerated (AC)		125.35		14.7				29.27			1.4	170.72		
HS contract-taught at HS (C2)		0.77					2.93					3.7		
Additional 3rd party costs (C5)				1.6								1.6		
Computer Lab (CL)		186.24						8.39	10.8			205.43		
Clinic (CN)		7.91									2.43	10.34		
Coop/Internship (CP)		26.89						0.87				27.76		
Flex and open registration (FL)		41.57										41.57		
Hybrid (HY)		35.89							1.4			37.29		
Individualized Computer Lab (IC)		5.46										5.46		
Independent Study (IS)		5.58	0.88									6.46		
Other (OT)											1.56	1.56		
Private Lessons (PL)		10.92									0.07	10.99		
Prior Learning (PR)			0.4								4.87	5.27		
Self-paced (SP)		26.88	0.42					6.2				33.5		
Telecourse (TL)		48.6										48.6		
Web based (WW)		241.2	9.8	3.77				1		109.45	4.55	369.77		
TOTALS:		2796.15	424.41	20.07	9.8	110.32	5.73	110.91	56.26	110.71	163.17	3807.53		
NCTI (NC) - not included in above numbers									1343.95			1343.95		
Other non-countable FTE							(are included in above numbers)					53.25		

GRADUATE EMPLOYMENT STATUS SURVEY 2001-2002

Arapahoe Community College -- Career Center

Responses compiled by Institutional Research are highlighted in red.

We at Arapahoe Community College are interested in continually evaluating and improving our services to both the students we train and the employers we serve. Since you are one of our 2001-2002 graduates, we would very much appreciate it if you would take a few minutes to complete the following survey, and return it to us in the enclosed postage-paid envelope at your earliest convenience. **All your information will remain confidential**; it will be combined with information from other graduates in your program to provide a valuable overview of employment in your career field.

As always, the Career Center staff is available to assist you with any questions or concerns related to your career or job search. Just give us a call at 303-797-5805 if we can help -- and again, thank you for your assistance with the survey.

From list of 647 students, 339 students responded. Percentages that follow are based on the 339 respondents.

181 (53%) earned a degree
151 (45%) earned a certificate
7 (2%) did not respond

1. Which of the following best describes your current situation? Are you...
- Employed full-time 215 (63%) part-time 29 (9%) in a job related to your ACC training
 - Employed full-time 49 (14%) part-time 12 (4%) in a job *not* related to your ACC training
 - Unemployed, looking for a job 21 (6%)
 - Unemployed, not looking for a job 15 (4%)

Numbers do not total to 339; some people are probably some combination of responses; the question does not allow for a clear separation of responses...

2. **If you are employed, please complete the following:**

Your Employer _____ Supervisor _____
Street Address _____

City, State, Zip Code _____
Your Job Title _____
 Full-time Part-time
Your Salary (before taxes) _____ Hourly Monthly

Average hourly wage: \$18.06 Std. Dev.: \$6.24 Mode: \$19.23
Minimum: \$5.40 Maximum: \$50.00

Have you been continuously employed since graduating from ACC?

- Yes 265 (78%) No 63 (19%) No response: 11 (3%)

(You can mark "Yes" if you have had more than one job, or if you were employed before you graduated)

3. Are you continuing your education *at this time*?

Yes **125 (37%)** No **209 (62%)** No response: 4 (1%)

4. **Are you active duty military?** Yes **5 (1%)** No **323 (99%)**
 Full-Time **3** Part-Time **4** (Not sure of response rate for this question; wording of Yes/No/FT/PT choices confusing...)

5. **Would you say that the skills and education you received at ACC helped you to get a job, or helped you in your current job?**

Yes **277 (82%)** No **52 (15%)** No response: 10 (3%)
(Double barreled question; we can't be sure what these responses really mean....)

6. **Would you say that your ACC program met your educational goals (was it what you expected?)**

Yes **315 (93%)** No **16 (5%)** No response: 8 (2%)
(And again... we can't be sure what these responses really mean....)

7. **To continue evaluations of our educational programs, may we contact your employer regarding your training for the job?**

Yes **164 (48%)** No **169 (50%)** No response: 6 (2%)

Your Signature _____

<u>VE 135 FY02 (1) Student Majors</u>	<u>N</u>	TECH	
ACCOUNTING	7	EMERGENCY MEDICAL TECHNICIAN	1
ADMINISTRATIVE ASSISTANT	1	FIRE ACADEMY	13
ADMINISTRATIVE SUPPORT SPECIALIST	3	GRAPHIC DESIGN & ILLUSTRATION	11
ARCHITECTURAL CONTRACTS & MATERIALS	1	HEALTH INFORMATION TECH	6
ARCHITECTURAL DRAFTING	2	HUMAN RESOURCES MGMT	5
ARCHITECTURAL TECH	3	ICD-9-CM/CPT CODING	5
BROADBAND TECHNICAL MGMT	49	INTERIOR DESIGN	29
BUSINESS	1	LAW ENFORCEMENT ACADEMY	26
BUSINESS ADMINISTRATION	8	MEDICAL LABORATORY TECH	1
CISCO	2	MICROCOMPUTER SPECIALIST	5
CLINICAL ASSISTANT	1	MORTUARY SCIENCE	8
COMMUNICATION TECH	4	NURSING	33
COMPUTER AIDED DRAFTING	3	OCCUPATIONAL THERAPY ASST	3
COMPUTER GRAPHICS	6	ORGANIZATIONAL BEHAVIOR	2
COMPUTER INFORMATION SYSTEMS	6	PARALEGAL	24
COMPUTER NETWORK TECH	2	PHARMACY TECHNICIAN	2
COMPUTER PROGRAMMING	3	PHLEBOTOMY	7
COMPUTER TECHNICIAN	5	PHYSICAL THERAPIST ASSISTANT	8
CONSTRUCTION SUPERVISION	2	PN TO RN	9
CONTEMPORARY MGMT	6	SUPERVISION	6
CRIMINAL JUSTICE	5	TRAVEL & TOURISM MGMT	3
EARLY CHILDHOOD PROFESSIONS	4	TRAVEL AND TOURISM	6
ELECTRONICS ENGINEERING	2	TOTAL	339

VE 135 FY02 (1)

EMPLOYER RESPONSES

Please rate your employee (1 through 5 with 5 representing the highest/best rating)

	Oral Communi- cation	Written Communi- cation	Technical Literacy	Professional- ism	Ability to work with others	Problem Solving	Overall Competency
Mean	4.17	4.03	4.14	4.25	4.44	4.16	4.22
Standard Deviation	0.66	0.84	0.77	0.85	0.81	0.76	0.63
Minimum	3	2	2	2	2	2	3
Maximum	5	5	5	5	5	5	5
Count	64	63	64	64	64	64	64
Poor 1	0	0	0	0	0	0	0
Needs Improvement 2	0	3 (5%)	1 (2%)	3 (5%)	2 (3%)	1 (2%)	0
Competent 3	9 (14%)	12 (19%)	12 (18%)	8 (12%)	7 (11%)	11 (17%)	7 (11%)
Good 4	35 (55%)	28 (44%)	28 (44%)	23 (36%)	16 (25%)	29 (45%)	36 (56%)
Excellent 5	20 (31%)	20 (32%)	23 (36%)	30 (47%)	39 (61%)	23 (36%)	21 (33%)

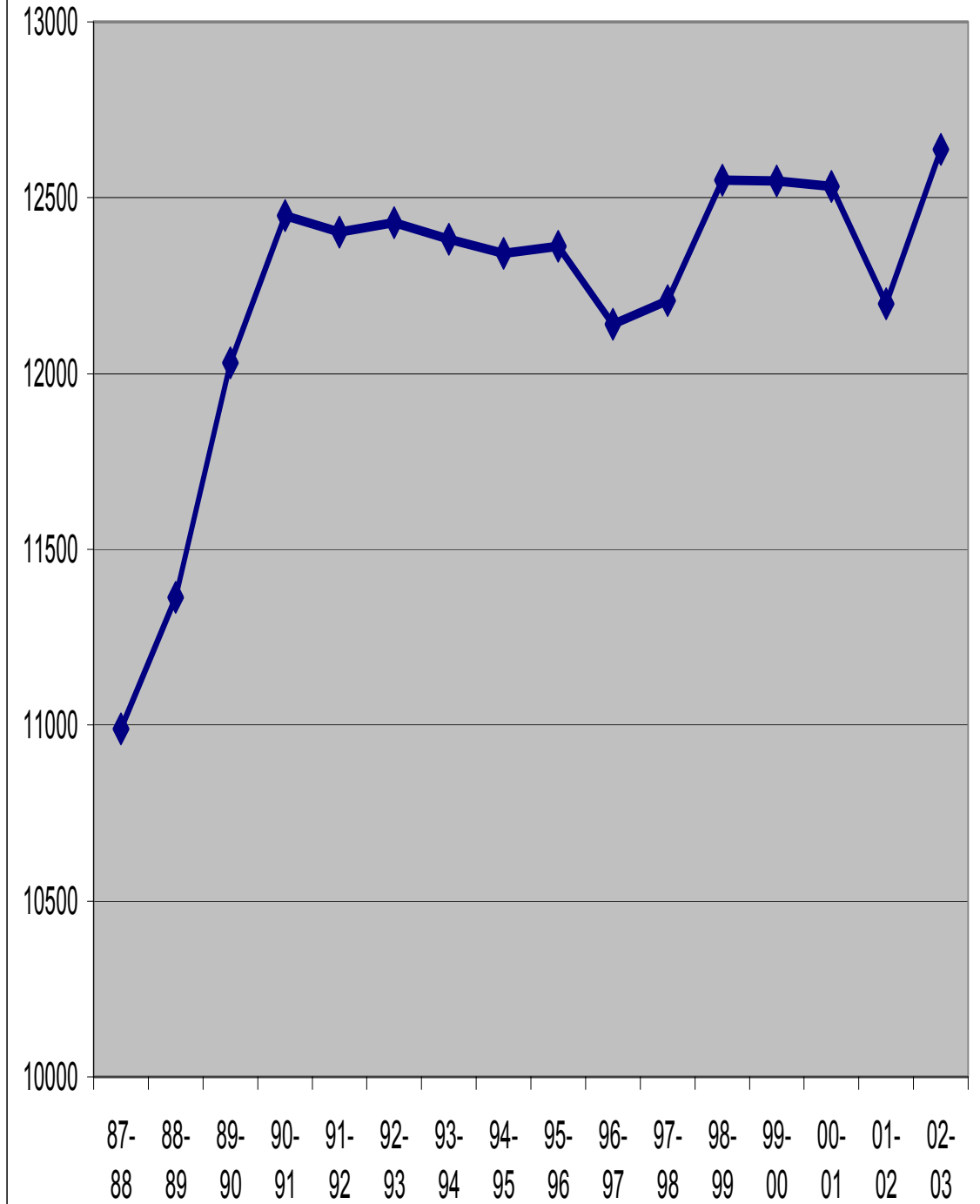
Ranked Averages:

Written Communication	4.03
Technical Literacy	4.14
Problem Solving	4.16
Oral Communication	4.17
Overall Competency	4.22
Professionalism	4.25
Ability to work with others	4.44

(lowest to highest)

Unduplicated Headcount by Year

Academic Year	Head count
87-88	10989
88-89	11363
89-90	12030
90-91	12449
91-92	12403
92-93	12428
93-94	12381
94-95	12342
95-96	12362
96-97	12141
97-98	12208
98-99	12549
99-00	12547
00-01	12532
01-02	12199
02-03	12638



Service Area High School Conversion Rates

Service Area High School Conversion Rates																			
Note: Grad #'s pulled from CDE website	HS Class of 97			HS Class of 98			HS Class of 99			HS Class of 00			HS Class of 01			HS Class of 02			
HS's	District	Graduates Completers	Enrolled Fall 97 (98F)	Conversion Rate (Enrolled/Grads)	Graduates Completers	Enrolled Fall 98 (99F)	Conversion Rate (Enrolled/Grads)	Graduates Completers	Enrolled Fall 99 (00F)	Conversion Rate (Enrolled/Grads)	Graduates Completers	Enrolled Fall 00 (01F)	Conversion Rate (Enrolled/Grads)	Graduates Completers	Enrolled Fall 01 (02F)	Conversion Rate (Enrolled/Grads)	Graduates Completers	Enrolled Fall 02 (03F)	Conversion Rate (Enrolled/Grads)
Arapahoe, Heritage, Littleton, Littleton Options	Littleton 6	1030	127	12%	1113	82	7%	1097	112	10%	1091	82	8%	1159	107	9%	1223	99	8%
Chaparral, DC Oakes, Douglas Cty, Highlands Rch, Ponderosa, Thunderridge	Douglas Cty RE1	1178	126	11%	1294	110	9%	1403	94	7%	1510	92	6%	1722	101	6%	1898	142	7%
Chatfield, Columbine, Conifer, Dakota Ridge	Part of Jefferson Cty R1 (pull grad rates by school)	not available	101	n/a	not available	103	n/a	not available	106	n/a	1456	75	5%	1372	70	5%	1451	96	7%
Cherry Creek	Part of Cherry Creek 5 (pull grad rates by school)	not available	28	n/a	not available	24	n/a	not available	23	n/a	827	29	4%	799	27	3%	860	17	2%
Englewood, Colorado's Finest	Englewood1	241	22	9%	261	26	10%	265	14	5%	256	23	9%	298	22	7%	290	23	8%
Sheridan	Sheridan2	79	13	16%	70	3	4%	82	7	9%	108	1	1%	128	6	5%	76	3	4%
Total Service Area			417			348			356		5248	302	6%	5478	333	6%	5798	380	7%
Other	Other		202			272			216			226			210			312	
dates used in HS_grads																			
term	Fall 1997 (98F)				Fall 1998 (99F)			Fall 1999 (00F)			Fall 2000 (01F)			Fall 2001 (02F)			Fall 2002 (03F)		
date 1	199809				199709			199809			199909			200009			200109		
date 2	199708				199808			199908			200008			200108			200208		

Jumpstart Retention Rates
Office of Institutional Research
Compiled by Margaret Puryear

No shading indicates Original Cohort numbers
 Shading indicates in-semester numbers

Jumpstart	03F	#	%	03S	#	%
Original Cohort		560	100%		560	100%
Original Cohort Success Rate GPA => 2.0		367	66%		279	50%
Enrolled for Semester		560	100%		407	73%
Number with Semester GPA < 2.0		193	34%		128	31%
Semester Success rate GPA =>2		367	66%		279	69%
Average Semester GPA		2.21			2.30	

Fall to Spg GPA improved by .09 or 4%.

Jumpstart: Full or part time, new student, entry term and enroll term = 0xM/0xF, Report Flag RT25C=J

"Standard" DEGREE SEEKING	03F	#	%	03S	#	%
Original Cohort		1272	100%		1272	100%
Original Cohort Success Rate GPA=> 2.0		907	71%		498	39%
Enrolled for Semester		1272	100%		694	55%
Number with Semester GPA < 2.0		365	29%		196	28%
Semester Success rate GPA =>2		907	71%		498	72%
Average Semester GPA		2.47			2.46	

Fall to Spg GPA declined by .01 pt.

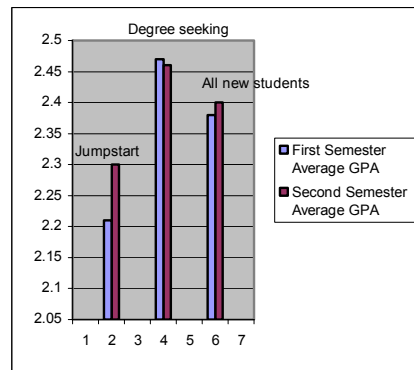
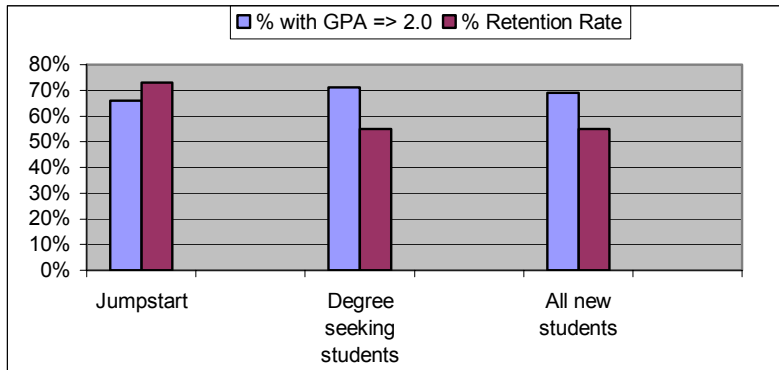
Standard: Full or part time, new student, entry term and enroll term = 0xM/0xF, degree seeking

"Standard" DEGREE NOT CONSIDERED	03F	#	%	03S	#	%
Original Cohort		1565	100%		1565	100%
Original Cohort Success Rate GPA=> 2.0		1083	69%		612	39%
Enrolled for Semester		1565	100%		867	55%
Number with Semester GPA < 2.0		482	31%		255	29%
Semester Success rate GPA =>2		1083	69%		612	71%
Average Semester GPA		2.38			2.40	

Fall to Spg GPA improved by .02 or .8%

Standard: Full or part time, new student, entry term and enroll term = 0xM/0xF, degree not considered

Summary	Degree seeking		
	Jumpstart	students	All new students
% with GPA => 2.0	66%	71%	69%
% Retention Rate	73%	55%	55%
First Semester Average GPA	2.21	2.47	2.38
Second Semester Average GPA	2.30	2.46	2.40



Conclusion: Although first-semester success rates for Jumpstart students, measured by semester GPA statistics, were poorer than the comparison groups, the retention rate was 18% higher than the comparison groups. In addition, the second semester performance for Jumpstart students improved at a greater rate than the comparison groups. I conclude, based on this initial information, that the Jumpstart Program continues to be successful. Lin Claussen.

Market Penetration Rate - FY 02 - 03

Office of Institutional Research

Compiled by Margaret Puryear

Highlights: The Market penetration rate for credit courses = 2.29% (of those 18 years old and above) with the highest headcount from the Highlands Ranch area. The Market Penetration rate for non-credit courses = 1.18% (of those 6 years old and above) with the highest headcount also from Highlands Ranch.

Zip Code Area	General Location	Number of people - 6 years old and above 2000 Census	# of Students enrolled in non-credit	% Market Penetration	Number of people - 18 years old and above 2000 Census	# of Students enrolled in credit crs'	% Market Penetration
80104	Castle Rock	26850	98	0.36%	20919	427	2.04%
80110	Englewood/Sheridan	40492	337	0.83%	33757	621	1.84%
80111	Greenwood Village	24222	333	1.37%	18281	313	1.71%
80112	Castlewood	20203	299	1.48%	15715	315	2.00%
80116	Parker	3545	20	0.56%	2787	60	2.15%
80118	Larkspur	3787	5	0.13%	3015	31	1.03%
80120	Littleton	26861	651	2.42%	22155	717	3.24%
80121	Littleton/GmWd Vill.	16950	320	1.89%	13461	291	2.16%
80122	Southglenn	29681	571	1.92%	23129	593	2.56%
80123	BowMar	38522	775	2.01%	31444	838	2.67%
80124 /80130	Lonetree	68203	447	0.66%	8821	500	5.67%
80125	Roxborough	4899	160	3.27%	3934	146	3.71%
80126 /80129	Highlands Ranch	73102	847	1.16%	46199	1033	2.24%
80127	Littleton	35437	610	1.72%	26374	575	2.18%
80128	Columbine	31447	552	1.76%	24519	662	2.70%
80134	Stonegate/Pinery	26819	142	0.53%	20057	567	2.83%
80135	W. of Castle Rock	3433	25	0.73%	2759	58	2.10%
80236	Den/Sheridan/Englewood	14673	54	0.37%	12111	162	1.34%
80138	Parker	18162	50	0.28%	14052	291	2.07%
80235	Denver	6561	29	0.44%	5530	89	1.61%
80425	So. Jefferson Co.	160	0	0.00%	133	6	4.51%
80433	Jefferson Co.	7665	15	0.20%	6104	45	0.74%
80465	So. Jefferson Co.	13892	35	0.25%	10998	113	1.03%
80470	So. Jefferson Co.	3166	2	0.06%	2541	9	0.35%
Totals		538732	6377	1.18%	368795	8462	2.29%

The total counts for Zip Codes 80235 and 80236 were included even though only half of the zip code area is in the service area
80129 and 80130 numbers are included in the totals of the zip code they are listed beside

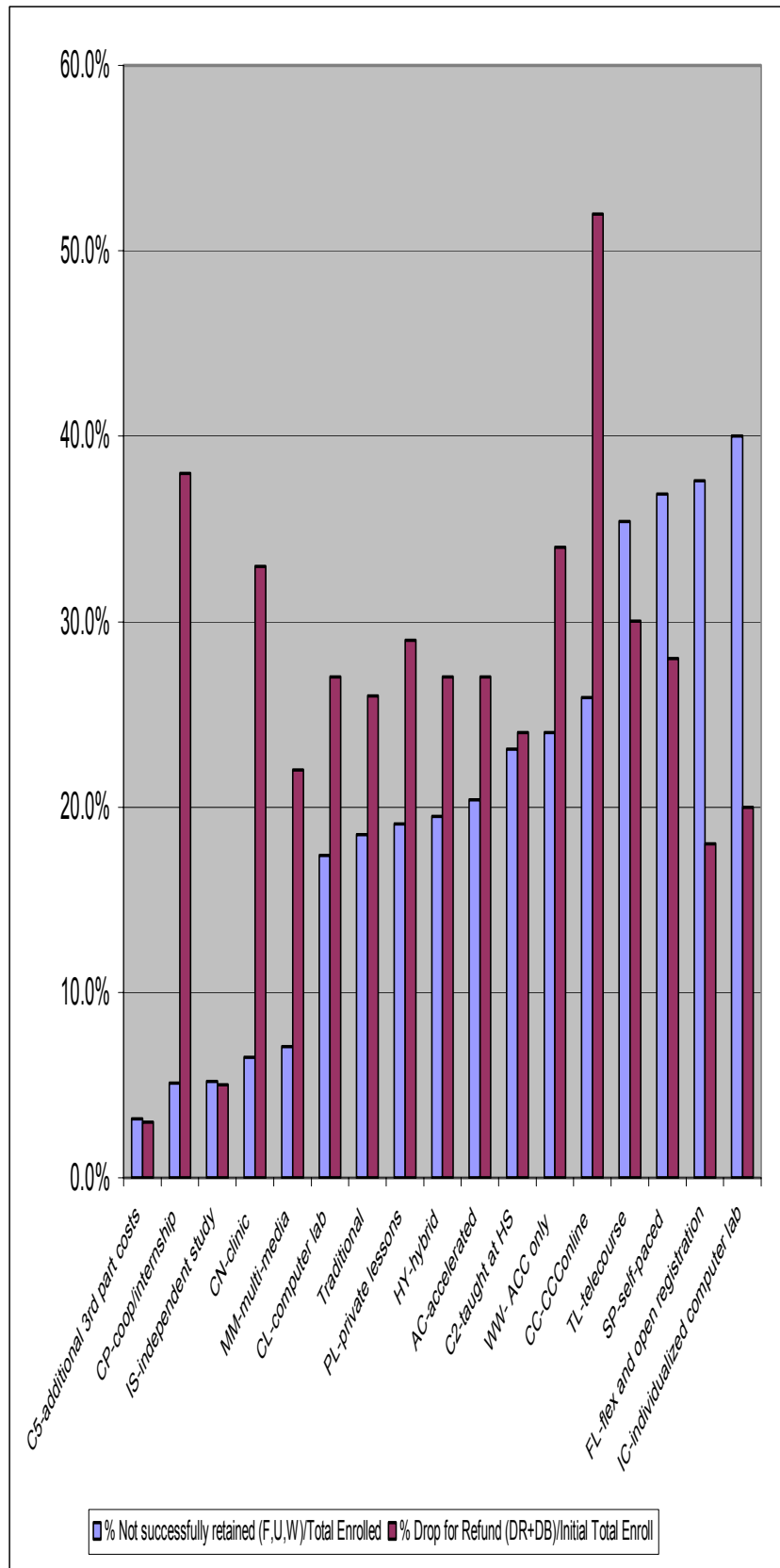
In-semester Persistence and Attrition Rates by Mode of Delivery, Fall Semester, 2002-03

03F By Mode Only	A	B	C	D	F	CR	I	IP	S	U	W	E (Total Enrolled not including audits)	% Retained to end of Semester (sum A-D,CR,I,IP,S)/Total Enrolled	% Not successfully retained (F,U,W)/Total Enrolled	AU - Audit students	DB (drop for non-pay)	DR (Student initiated drop)	Initial Total Enroll (Total Enroll + Drops)	% Drop for Refund (DR+DB)/Initial Total Enroll
Traditional	5665	3373	2040	567	1318	1	126	24	201	4	1410	14729	81.5%	18.5%	220	793	4291	19813	26%
AC-accelerated	427	212	97	20	133		6		17	7	60	979	79.6%	20.4%	3	43	325	1347	27%
C2-taught at HS	3	2	4	1	2						1	13	76.9%	23.1%	1	1	3	17	24%
C5-additional 3rd part costs	13							8	9		1	31	96.8%	3.2%			1	32	3%
CC-CCOnline	234	121	77	14	98		4	7			62	617	74.1%	25.9%	1	127	538	1282	52%
CL-computer lab	395	119	54	26	69		7		15	1	60	746	82.6%	17.4%	8	38	231	1015	27%
CN-clinic	44	30	10	2	5		12	79	95	3	11	291	93.5%	6.5%	1	25	116	432	33%
CP-coop/internship	30	2	1		1		3	1			1	39	94.9%	5.1%		2	22	63	38%
FL-flex and open registration	145	42	23	5	91			27	18	3	63	417	62.4%	37.6%	60	16	77	510	18%
HY-hybrid	154	78	30	13	30		3	2			38	348	80.5%	19.5%		20	106	474	27%
IC-individualized computer lab	17	4			13			3			3	40	60.0%	40.0%			10	50	20%
IS-independent study	39	6		1	1		3	3	3		2	58	94.8%	5.2%			3	61	5%
MM-multi-media	7	3	3								1	14	92.9%	7.1%		1	3	18	22%
PL-private lessons	24	8	4	2	2						7	47	80.9%	19.1%		7	12	66	29%
PR-prior learning						13						13	100.0%	0.0%			1	14	7%
SP-self-paced	79	51	19	5	37		3	19	79	51	61	404	63.1%	36.9%	45	22	139	565	28%
TL-telecourse	32	24	25	6	35		5		1		16	144	64.6%	35.4%		12	49	205	30%
WW- ACC only	627	322	135	43	200		16	8	10	4	162	1527	76.0%	24.0%	2	120	681	2328	34%
TOTAL	7935	4397	2522	705	2035	14	188	181	448	73	1959	20457	80.1%	19.9%	341	1227	6608	28292	28%

In-semester Persistence and Attrition Rates by Mode of Delivery, Fall Semester, 2002-03

03F By Mode Only	% Not successfully retained (F,U,W)/Total Enrolled	% Drop for Refund (DR+DB)/Initial Total Enroll
	PR-prior learning	0.0%
C5-additional 3rd part costs	3.2%	3.0%
CP-coop/internship	5.1%	38.0%
IS-independent study	5.2%	5.0%
CN-clinic	6.5%	33.0%
MM-multi-media	7.1%	22.0%
CL-computer lab	17.4%	27.0%
Traditional	18.5%	26.0%
PL-private lessons	19.1%	29.0%
HY-hybrid	19.5%	27.0%
AC-accelerated	20.4%	27.0%
C2-taught at HS	23.1%	24.0%
WW- ACC only	24.0%	34.0%
CC-CCOnline	25.9%	52.0%
TL-telecourse	35.4%	30.0%
SP-self-paced	36.9%	28.0%
FL-flex and open registration	37.6%	18.0%
IC-individualized computer lab	40.0%	20.0%

Note: Above percents and chart sorted by second column which places modes in order of Best Retention to Least Retention



Retention & Attrition in-semester Rates by Subject Area - Fall 02-03 Semester

Office of Institutional Research

Division	PRE FIX	A	B	C	D	F	CR	I	IP	S	U	W	E (Total Enrolled not including audits)	% Retained to end of Semester (sum A-D,CR, I, IP,S)/Total Enrolled	% Not successfully retained (F,U,W)/Total Enrolled	AU - Audit Students	DB (drop for non-pay)	DR (Student initiated drop)	Initial Total Enroll (Total Enroll + drops)	% Drop for Refund (DR+DB)/Initial Total Enroll.
AHSS	AAA	49	12	10	5	13						8	97	78.4%	21.6%		4	21	122	20%
AHSS	ANT	56	20	7	2	8				1		10	104	82.7%	17.3%		11	24	139	25%
AHSS	ART	381	156	64	20	51		6	1			59	738	85.1%	14.9%	54	43	280	1061	30%
AHSS	ASL		5	8	4							2	19	89.5%	10.5%		3	14	36	47%
AHSS	ECP	98	42	14	8	19			1			14	196	83.2%	16.8%		14	78	288	32%
AHSS	EDU	36	3	3	1	5		1	2			3	54	85.2%	14.8%		5	25	84	36%
AHSS	ENG	357	391	323	83	238		10		1		255	1658	70.3%	29.7%	5	81	424	2163	23%
AHSS	ESL	2	14	5		3						7	31	67.7%	32.3%		7	11	49	37%
AHSS	FRE	18	11	5		4				1		8	47	74.5%	25.5%	3	7	37	91	48%
AHSS	GDI	149	84	24	10	23	2	1				15	308	87.7%	12.3%	6	15	64	387	20%
AHSS	GEO	32	39	23	8	23		3		1		11	140	75.7%	24.3%		6	32	178	21%
AHSS	HIS	164	50	53	30	61	2	12				44	416	74.8%	25.2%		23	159	598	30%
AHSS	HUM	38	24	37	8	13		4				33	157	70.7%	29.3%	1	12	62	231	32%
AHSS	IND	536	104	39	4	15		8				28	734	94.1%	5.9%		62	231	1027	29%
AHSS	JOU	4	8	7	1	2							22	90.9%	9.1%		1	11	34	35%
AHSS	JPN	27	21	9	1	1						4	63	92.1%	7.9%	2	2	15	80	21%
AHSS	LAT	10	3	3	1	1						2	20	85.0%	15.0%		1	2	23	13%
AHSS	LIT	41	33	19	2	16			1			19	131	73.3%	26.7%	2	13	64	208	37%
AHSS	MUS	112	49	21	3	26						27	238	77.7%	22.3%		15	93	346	31%
AHSS	PHI	71	82	55	14	38						38	298	74.5%	25.5%		21	135	454	34%
AHSS	POS	75	46	22	7	31		2				17	200	76.0%	24.0%		8	60	268	25%
AHSS	PSY	310	251	178	55	121		7				99	1021	78.5%	21.5%	1	74	302	1397	27%
AHSS	REA	67	93	60	26	52		1				30	329	75.1%	24.9%		14	94	437	25%
AHSS	SOC	95	109	69	17	61					1	36	388	74.7%	25.3%		25	98	511	24%
AHSS	SPA	141	53	25	7	25		2				36	289	78.9%	21.1%	7	23	158	470	39%
AHSS	SPE	187	142	59	13	51		1		1		57	511	78.9%	21.1%		26	133	670	24%
AHSS	THE	36	6	1		6						5	54	79.6%	20.4%		6	26	86	37%
BUS	ACC	178	64	47	12	43		5	3			46	398	77.6%	22.4%	1	24	124	546	27%
BUS	ATC	53	74	40	10	25	4					8	214	84.6%	15.4%		7	51	272	21%
BUS	AUT	130	134	60	11	26	3		10			15	389	89.5%	10.5%		18	80	487	20%
BUS	BTE	118	43	14		18	1	2		27	11	12	246	83.3%	16.7%		6	89	341	28%
BUS	BUS	188	132	63	24	67		1			2	40	517	78.9%	21.1%		39	165	721	28%
BUS	CIS	595	195	81	26	145		8	23	14	1	104	1192	79.0%	21.0%	6	59	332	1583	25%
BUS	CNT	18	5	2	1	5				2		1	34	82.4%	17.6%		4	21	59	42%
BUS	CRJ	147	85	27	8	17		64		167		16	531	93.8%	6.2%		23	67	621	14%
BUS	CSC	91	25	13	4	30		5				28	196	70.4%	29.6%	3	16	78	290	32%
BUS	CTC	26	13	2	2	3		3	3			4	56	87.5%	12.5%		4	19	79	29%
BUS	CWB	21	1			7							29	75.9%	24.1%		1	10	40	28%
BUS	ECO	125	102	83	10	47		6				34	407	80.1%	19.9%		21	118	546	25%

BUS	FIN	14	11	2	1	3						6	37	75.7%	24.3%	1	2	40	79	53%	
BUS	FST	4	14									4	22	81.8%	18.2%			6	28	21%	
BUS	INV	20	4	1		4						6	35	71.4%	28.6%		2	14	51	31%	
BUS	LAW	198	81	39	11	12		1				22	364	90.7%	9.3%	2	19	93	476	24%	
BUS	MAN	170	80	19	6	31		2		12		18	338	85.5%	14.5%		15	92	445	24%	
BUS	MAR	82	35	17	5	28						14	181	76.8%	23.2%	1	8	54	243	26%	
BUS	NET	88	40	16	4	33		5				10	196	78.1%	21.9%		10	51	257	24%	
BUS	REE	65	24	15	2	8						4	118	89.8%	10.2%		19	40	177	33%	
BUS	TRA	73	9	2	1	9		2				4	100	87.0%	13.0%		4	21	125	20%	
HMSE	ALH	242	115	49	6	27				11		33	483	87.6%	12.4%		36	229	748	35%	
HMSE	APT	23	4	2	2	5							36	86.1%	13.9%		3	4	43	16%	
HMSE	ARC	78	18	7	7	7	1	2		1		11	132	86.4%	13.6%		8	39	179	26%	
HMSE	AST	121	21	14	6	21						19	202	80.2%	19.8%		12	65	279	28%	
HMSE	ATH	32	1	12		1						4	50	90.0%	10.0%			1	51	2%	
HMSE	BIO	261	230	188	68	99		1				136	983	76.1%	23.9%	3	88	363	1434	31%	
HMSE	CAD	101	41	15	3	25	1	1				8	195	83.1%	16.9%	9	13	45	253	23%	
HMSE	CHE	45	47	27	6	9			1			25	160	78.8%	21.3%	1	10	113	283	43%	
HMSE	EGG	10	2	2		1						2	17	82.4%	17.6%		2	9	28	39%	
HMSE	ELT	51	15	9	2	7		1	36			8	129	88.4%	11.6%		5	22	156	17%	
HMSE	EMS	40	39	28	2	12		14	76			14	225	88.4%	11.6%	1	11	50	286	21%	
HMSE	GEY	14	9	9	1	1						4	38	86.8%	13.2%		3	35	76	50%	
HMSE	HIT	44	24	2	2	6			4			12	94	80.9%	19.1%		7	28	129	27%	
HMSE	MAT	517	397	279	91	179	1	5		78	52	255	1854	73.8%	26.2%	17	90	620	2564	28%	
HMSE	MDT	1	1			2						1	5	40.0%	60.0%			1	6	17%	
HMSE	MLT	66	37	13	10	7		3	2			9	147	89.1%	10.9%		11	42	200	27%	
HMSE	MOR	46	48	7	4	6						3	114	92.1%	7.9%		10	13	137	17%	
HMSE	MOT	112	18	12	4	19		2				18	185	80.0%	20.0%		12	101	298	38%	
HMSE	MTE												0					1	1	100%	
HMSE	NUA	34	11	4		2		3		94	3	4	155	94.2%	5.8%		25	101	281	45%	
HMSE	NUR	48	115	94	18	9						9	293	93.9%	6.1%		8	66	367	20%	
HMSE	NUT	7	2	1		2						1	13	76.9%	23.1%		6	13	32	59%	
HMSE	PAM	13							9				22	100.0%	0.0%			1	23	4%	
HMSE	PED	321	51	34	15	83	1	3	10	31	3	68	619	75.3%	24.9%	31	34	245	898	31%	
HMSE	PHR	12		2					2	5		1	22	95.5%	4.5%			5	27	19%	
HMSE	PHT	129	53	37	7	16		1		1		18	262	87.0%	13.0%		5	94	361	27%	
HMSE	PHY	24	21	7	5	9		1				25	92	63.0%	37.0%	1	6	59	157	41%	
HMSE	PTA	19	25	10	1	5		2				4	66	86.4%	13.6%		1	11	78	15%	
WKF	CBT	4	2	3									9	100.0%	0.0%		1	1	11	18%	
WKF	FOS			1	1	2							1	5	40.0%	60.0%	1		2	7	29%
TOTALS FOR THE ENTIRE COLLEGE																					
TOTAL																					
	A	B	C	D	F	CR	I	IP	S	U	W	E (Total Enrolled not including audits)	% Retained to end of Semester (sum A-D,CR, I, IP,S)/Total Enrolled	% Not successfully retained (F,U,W)/Total Enrolled	AU - Audit Students	DB (drop for non-pay)	DR (Student initiated drop)	Initial Total Enroll (Total Enroll + drops)	% Drop for Refund (DR+DB)/Initial Total Enroll.		
	7911	4369	2554	729	2030	15	201	184	448	73	1956	20470	80.2%	19.8%	159	1230	6597	28297	28%		

Student Satisfaction Survey Results
Analysis conducted by Jennifer Gienger, MSED
Office of Institutional Research
February 26, 2003

The Student Satisfaction survey was distributed to randomly selected classes. One hundred fifty-three students in these classes completed the survey. The following is the demographic breakdown of this survey.

Demographic Data Analysis:

Gender	N	Percentage
Male	73	48%
Female	79	52%

Age	N	Percentage
16 – 25	89	59%
26 – 35	26	17%
36 – 45	21	14%
46 – 55	12	8%
55 and over	4	2%

Ethnicity	N	Percentage
Native American	3	1.5%
African American	6	4%
Asian	10	7%
Hispanic	13	9%
White	118	77%
Unknown	3	1.5%

Do consider yourself disabled or handicapped?	N	Percentage
No Disability	147	96%
Disability	6	4%

Demographic Data Analysis Continued:

What was your primary objective in attending your two-year college?	N	Percentage
College Transfer	82	54%
Job preparation	28	18%
Improvement of job skills	18	12%
Personal	16	11%
Other	8	5%

What is your educational goal for attending your two-year college?	N	Percentage
Take 1 course	3	2%
Take a few courses	41	27%
Get a Certificate	23	15%
Get and Associates degree	83	54%
Get Vocational degree	3	2%

How many credit hours are you taking this semester?	N	Percentage
4 or less	17	11%
5 – 11	78	51%
12 or more	58	38%

If employed, how many hours a week are you working?	N	Percentage
20 or less	23	19%
21 - 39 hrs	44	36%
40 or more	54	45%

Evaluation of Two-Year College Instruction:

Quality of Instruction	N	Percentage
Poor	5	3%
Fair	18	12%
Good	70	46%
Very Good	60	39%

Instructor's knowledge of subject(s)	N	Percentage
Fair	8	5%
Good	43	28%
Very Good	102	67%

Course objectives and requirements made clear	N	Percentage
Poor	4	3%
Fair	22	15%
Good	50	33%
Very Good	74	49%

Content of Course	N	Percentage
Poor	3	2%
Fair	19	13%
Good	63	41%
Very Good	67	44%

Methods of Instruction	N	Percentage
Very Poor	1	1%
Poor	8	5%
Fair	29	19%
Good	54	35%
Very Good	60	40%

Evaluation of Two-Year College Instruction Cont:

Testing and Grading	N	Percentage
Poor	1	1%
Fair	25	16%
Good	75	49%
Very Good	52	34%

Class size	N	Percentage
Poor	1	1%
Fair	18	12%
Good	62	40%
Very Good	71	47%

Availability of courses at convenient times	N	Percentage
Very Poor	1	1%
Poor	12	8%
Fair	33	22%
Good	48	31%
Very Good	58	38%

Evaluation of Two-Year College Services:

Admissions/Registration procedures	N	Percentage
Didn't Use	3	2%
Very Poor	5	3%
Poor	3	2%
Fair	19	12%
Good	78	52%
Very Good	45	29%

Career planning and guidance	N	Percentage
Didn't Use	43	28%
Very Poor	9	6%
Poor	9	6%
Fair	36	24%
Good	36	24%
Very Good	19	12%

Course Advising	N	Percentage
Didn't Use	33	22%
Very Poor	10	7%
Poor	14	9%
Fair	38	25%
Good	37	24%
Very Good	20	13%

Financial Aid	N	Percentage
Didn't Use	62	42%
Very Poor	5	3%
Poor	6	4%
Fair	24	16%
Good	29	20%
Very Good	23	15%

Evaluation of Two-Year College Services Cont:

Student Activities	N	Percentage
Didn't Use	96	64%
Poor	4	3%
Fair	14	9%
Good	22	15%
Very Good	13	9%

Job placement office	N	Percentage
Didn't Use	102	69%
Very Poor	3	2%
Poor	1	1%
Fair	17	12%
Good	15	10%
Very Good	9	6%

Assistance to disadvantaged	N	Percentage
Didn't Use	98	67%
Very Poor	3	2%
Fair	12	8%
Good	16	11%
Very Good	17	12%

Library/learning resources center	N	Percentage
Didn't Use	37	25%
Very Poor	3	2%
Poor	3	2%
Fair	25	17%
Good	39	25%
Very Good	44	29%

Evaluation of Two-Year College Services Cont:

Tutorial Services	N	Percentage
Didn't Use	82	55%
Poor	2	1%
Fair	25	17%
Good	19	13%
Very Good	20	14%

Educational development courses/basic skills center	N	Percentage
Didn't Use	84	57%
Poor	2	1%
Fair	17	12%
Good	27	18%
Very Good	17	12%

Bookstore	N	Percentage
Didn't Use	7	5%
Very Poor	7	5%
Poor	10	7%
Fair	40	26%
Good	57	37%
Very Good	32	20%

Business office	N	Percentage
Didn't Use	77	53%
Very Poor	2	1%
Poor	5	3%
Fair	17	11%
Good	34	23%
Very Good	14	9%

Evaluation of Two-Year College Services Cont:

Food Services	N	Percentage
Didn't Use	67	45%
Very Poor	10	7%
Poor	8	5%
Fair	23	16%
Good	25	17%
Very Good	15	10%

Satisfaction with your growth in the following areas as a result of your two-year college education:

Ability to organize ideas	N	Percentage
Dissatisfied	6	4%
Satisfied	96	67%
Very Satisfied	42	29%

Ability to think critically	N	Percentage
Dissatisfied	4	3%
Satisfied	93	65%
Very Satisfied	46	32%

Ability to write with clarity	N	Percentage
Very Dissatisfied	2	1%
Dissatisfied	8	6%
Satisfied	87	61%
Very Satisfied	45	32%

Satisfaction with your growth in the following areas as a result of your two-year college education cont.

Ability to speak with clarity	N	Percentage
Very Dissatisfied	1	1%
Dissatisfied	10	7%
Satisfied	84	59%
Very Satisfied	46	33%

Ability and skills in problem solving	N	Percentage
Dissatisfied	8	6%
Satisfied	88	63%
Very Satisfied	43	31%

Knowledge of methods and problems in the social sciences	N	Percentage
Very Dissatisfied	3	2%
Dissatisfied	10	7%
Satisfied	95	68%
Very Satisfied	33	23%

Knowledge of methods and achievements in science	N	Percentage
Very Dissatisfied	1	1%
Dissatisfied	13	9%
Satisfied	93	66%
Very Satisfied	33	24%

Knowledge and skills in mathematics	N	Percentage
Very Dissatisfied	7	5%
Dissatisfied	15	11%
Satisfied	84	61%
Very Satisfied	31	23%

Awareness and appreciation of the arts and humanities	N	Percentage
Very Dissatisfied	3	2%
Dissatisfied	7	5%
Satisfied	87	63%
Very Satisfied	42	30%

Awareness and understanding of ethics	N	Percentage
Very Dissatisfied	3	2%
Dissatisfied	6	4%
Satisfied	84	60%
Very Satisfied	46	34%

What time do you prefer to take classes?	N	Percentage
All day	16	11%
Mornings	52	34%
Afternoons	17	11%
Evenings	65	43%
Weekends	1	1%

Highest level of education achieved before enrolling at ACC:	N	Percentage
Grade School	1	1%
Some High School	5	3%
High School Diploma	70	47%
High School equivalency certificate	6	4%
Some College	44	29%
Degree from a two-year college	2	1%
Degree from a four-year college	17	12%
Other	5	3%

How did you hear about your two-year college?	N	Percentage
No response	6	4%
Class schedule mailed	27	19%
Class schedule picked-up	1	1%
Newspaper article	7	5%
Viewbook or other brochure	3	2%
Two-year college catalogue	19	13%
Parents	25	18%
Teacher or counselor	27	19%
Friend or other student	27	19%

What is the main reason that you chose or continuing at ACC?	N	Percentage
Quality of instruction	19	13%
Close to home or work	58	39%
Low cost	29	19%
Courses met your needs	26	17%
Friends	2	1%
Admission/Reg procedures easier	1	1%
Courses offered when you could take them	4	3%
Financial Aid	2	1%
Advisors are helpful	3	2%
Other	6	4%

How would you rate your ACC experience so far?	N	Percentage
Very good	45	30%
Good	75	50%
Fair	28	19%
Poor	1	1%

Successful Retention and Registration Time Analysis by Dr. Suzanne Larsh

Is there a relationship between successful retention in Arapahoe Community College courses and registration time?

Review

Enrollment management personnel and faculty were interested in the relationship between successful retention in courses at Arapahoe Community College and the time at which students register for courses. It was hypothesized that students who register late for a course have a smaller chance of successfully completing the course.

Methodology

Final course grades and registration time for the entire fall 2002 student population were available. For the purposes of this study, courses included in the successfully retained group resulted in a final grade of A, B, C, D, S (Satisfactory), I (Incomplete), or IP (In-Progress). Courses in which students were unsuccessfully retained resulted in a final grade of F, U (Unsatisfactory), or W, indicating withdrawal from the course. Courses dropped during the semester were not included in this study because of the variety of reasons drops occur, and the difficulty in determining the extent of class participation before the drop action. Courses being audited (AU) were not included in this study because final grades are not given for audits.

Students registered for a total of 27,070 courses for the fall 2002 semester. Removing courses from the data pool which were dropped or audited resulted in a total of 20,470 courses. On-time registration was considered to be registration by any date up to and including the first day of class. Late registration was defined as registration any time after the first day of class. 2435 of the total 20,470 courses were classified as late registration. A random sample of 2435 on-time registrants was taken to match the number of late cases.

Results

Initial inspection of group means showed the mean success rate for courses which had been registered for on time was higher ($x = .81$) than for those registered late ($x = .75$). These means were calculated from coded data with non-success = 0 and success = 1. A univariate analysis of variance (between subjects) test was performed, comparing the success rates of students in the two registration groups. The analysis of variance test compares means of sample groups in order to make inferences about population means. Although the assumption of equal group variances was violated for the sample drawn, the large group sizes and a confirmatory t-test showing nearly identical results for equal and unequal group variances ($t = -4.93$ and $t = -4.95$ respectively, equal standard errors = 0.2 and equal confidence intervals of -.04) justified the use of univariate statistical tests.

Results of the univariate analysis indicate a significant difference in success rates for on-time course registration compared with late registration ($F(1, 4869) = 24.29, p = .000$), indicating that the differences between groups was not likely to happen by chance.

Power analysis (observed power = .99) indicated that the sample size was large enough to detect a difference between the two groups, and that the chances were very small of erroneously concluding that the groups didn't differ when they did. Further, this amount of statistical power is indicative of a sample that would be able to detect a treatment effect, (however small) if one existed. However,

examination of effect size (measured by a partial eta squared, η^2 , which is an index of the proportion of explained variance, or an estimate of the magnitude of the effect of registering on time versus registering late) yielded a partial η^2 of .005, which is classified as a very small effect size. One way to confirm this statistically low magnitude is to look at actual success and non-success rates between the two groups. There is a non-success rate of 19% in the “on-time” group. That is, 19% of courses resulted in unsuccessful retention for reasons other than registration time. We can probably assume that 19% (462 registrants) of the total number (2435) of late registrants were also non-successfully retained for the same reasons (the assortment of reasons not related to registration time). The actual non-success rate of the “late” group was 25% (605 course registrants out of 2435). If 462 of the 2435 would have been unsuccessfully retained anyway, the total number of “true” non-successes (those probably associated with late registration) is 143 (605 minus 462). Therefore, of the total fall enrollment of 20,470 courses (excluding courses dropped and audited), 143 (less than 1% of the total) registrants were probably unsuccessfully retained for reasons associated with late registration time. This is the quantitative explanation of the small effect size rendered by the statistical analysis.

Conclusions

Although this analysis of the relationship between registration time and course success indicates that students registering on time are more likely to succeed in their courses, the magnitude of the difference between groups is statistically and quantitatively very small.

Other factors may warrant consideration in interpreting these results. First, the fall 2002 semester may not be representative of typical registration and success patterns, although the large sample size used in this analysis would usually allow generalizability to other semesters and years. Even so, data from additional years and semesters would help confirm the results reported here. Another factor to consider is multiple late registrations by the same student. A study comparing the success rate for one late-registration course versus success in two or more late registrations might show a relationship between the number of late registrations per student and the likelihood of successful retention.

Environmental Scan

Age Trend Analysis **By Dr. Suzanne Larsh**

Purpose

To evaluate conclusions drawn in the 2001 Environmental Scanning Report submitted by Beth S. Pent regarding future population trends that may affect Arapahoe Community College.

Method

Population data from 2003 and 2013 were collected from the Colorado Department of Local Affairs. Aggregate population data from Arapahoe, Douglas and Jefferson counties were drawn in order to give a current assessment of population trends. Although this tri-county area extends beyond the state mandated service area for Arapahoe Community College, the analysis may generalize fairly well to our service area. Both the tri-county and service area boundaries encompass Douglas County, which is the fastest growing county in the tri-county region, and which comprises most of the mandated ACC service area. Changes in this rapidly changing county could account for many of the proportional changes reflected in the 2003-2013 comparison.

Initial exploration of the data show that the overall population is projected to increase from 1,266,119 to 1,486,624, an increase of 14.83%. This population increase is not distributed evenly across all age ranges; a projected net decrease in population is expected in the 30 to 49 age ranges. The other age ranges (zero to 29 and 50 to 90+) collectively account for the 14.83% increase in total population.

Next, the 2003 and 2013 data were compared using the chi-square (χ^2) goodness-of-fit procedure to compare the percentage or probability distribution of the populations. Attachment 1 shows that the population distributions from the years 2003 and 2013 are significantly different (χ^2 $\alpha = .05$, 19 df = 30.14).

Review and Discussion

The population in the tri-county area is projected to increase by over 220,000 people during the next ten years. However, a net population decrease is expected for the age ranges included in the 30 to 49 group. Further, other age groups in the population do not increase at exactly the same rate.

The chi-square analysis allows us to compare our current (2003) frame of mind with the population projections for 2013. For example, there will be proportionally fewer (by .87%) people in the 15 to 19 age range in 2013 than we are currently used to in the tri-county region. However, because of the overall population increase, there will be an actual increase of 3,725 people in that age range (proportionally fewer than we are used to, but quantitatively more). A more intuitively understandable relationship exists between the proportional and quantitative changes for the 20 to 29-year age ranges. By 2013 there will be 2.78% more in this age range proportionally than in 2003, and 68,071 more people (proportionally more, and quantitatively more, too). This same effect is seen in the 50 to 74 age ranges. There will be 6.45% more people (proportionally) in this range compared to 2003, and an actual increase of 44,062 people. Attachment 2 shows the percent changes expected for each age range.

Finally, the conclusions from the current analysis were compared with statements made in the 2001 Environmental Scanning report concerning population trends, as follows:

1. The 2001 report reads "...we can predict that over the next ten years [1990 to 2000] or so, the populations of Arapahoe, Douglas, and Jefferson Counties reaching the ages of 60 and over will be far greater than the portions of the population who reach the ages of 20 or more (p.10.)" Even assuming that the author meant to exclude those of ages 60 and over from the group reaching age 20 or more from her calculations, the current analysis does not support this statement. The current analysis sets the projected population percentage for 2013 of ages 20 to 59 at 56.41%; the percentage of persons aged 60 or more is 16.98%.
2. Another statement from the 2001 report about future needs reads "A major planning factor for the ACC service area over the next 20 year period will need to be focused on senior citizen needs (p.10)." This statement is partially correct. If the 2013 projections are accurate, there will be a 6.45% proportional increase in the 50 to 74-year age ranges in the tri-county area as compared to 2003. A population increase of 44,062 in this age range can be expected. This is both a proportional and quantitative increase from 2003 population rates in this age range. Arapahoe Community College should be prepared to offer services to this population.

However, the 2001 report somewhat downplays the increases in younger populations by merely stating "...enrollment of students straight out of high school can be expected to increase at a rate slightly above the state average over the coming 10 to 20 years (p.12)." The current analysis shows a small proportional decrease (.87%) in this "straight out of high school" group of 15 to 19 years, but a corresponding population increase of 3,725. When added to the population increase of 68,071 and the proportional increase of 2.78% from the 20 to 29-year group, this younger group (15 to 29 years) should not be neglected in favor of older community members by planners at ACC.

Summary

To review, the tri-county area will experience an overall population increase by the year 2013. This increase affects two broad age groups that may be considered potential ACC student population pools. The first group aged 15 to 29 will increase proportionally by a modest 1.91%, but this increase corresponds with a quantitative increase of 71,796 people. The second group, aged 50 to 74, will increase by 44,062, a proportional increase of 6.45%. While this older group's proportional increase is greater, the quantitative increase is comparatively less than the increase in the younger age group. A two-pronged approach to strategic planning based on this population trend analysis is apparent, prepare to provide courses for an increasingly large group of "traditional age" prospective students, and provide courses and services for the group of older community members that will be proportionally larger than currently experienced in the tri-county region.

Age Trend Analysis attachment I

Does the 2013 population distribution in Arapahoe, Jefferson and Douglas counties combined differ from the 2003 population distribution?

Age range	2003	p probability	O (projected) 2013	E expected frequency 2013	O - E Difference	(O - E) Square of Difference	(O - E) / E
0 to 4	88285	0.070	101869	103661	-1792	3211264	30.978649
5 to 9	89426	0.071	97523	105000	-7477	55905529	532.43224
10 to 14	94557	0.075	97468	111025	-13557	183792249	1655.415
15 to 19	95291	0.075	99016	111887	-12871	165662641	1480.6284
20 to 24	75904	0.060	109064	89123	19941	397643481	4461.7229
25 to 29	77562	0.061	112473	91070	21403	458088409	5030.0661
30 to 34	95419	0.075	91954	112037	-20083	403326889	3599.9436
35 to 39	100913	0.080	90651	118488	-27837	774898569	6539.9003
40 to 44	115153	0.091	104184	135208	-31024	962488576	7118.5856
45 to 49	109360	0.086	105881	128406	-22525	507375625	3951.3408
50 to 54	95883	0.076	116416	112582	3834	14699556	130.56777
55 to 59	73264	0.058	107806	86024	21782	474455524	5515.4159
60 to 64	48280	0.038	91624	56688	34936	1220524096	21530.419
65 to 69	33411	0.026	65843	39230	26613	708251769	18053.923
70 to 74	26580	0.021	39791	31209	8582	73650724	2359.9099
75 to 79	21029	0.017	24645	24691	-46	2116	0.0856979
80 to 84	14612	0.012	16193	17157	-964	929296	54.164881
85 to 89	7548	0.006	9627	8863	764	583696	65.860984
90 to 90+	3642	0.003	4596	4276	320	102400	23.946023
Σ	1266119	1	1486624	1486624	0		82135.307

X square (α =.05, 19 df) = 30.144

X square = Σ (O - E) / E = 82135.31

Yes, the proportional distribution of age ranges within the population changes significantly from 2003 to 2013.

O : "Observed" population distribution for 2013. More accurately, the projected population distribution estimated by the Colorado Division of Local Affairs, updated June 19, 2003.

E : Expected population distribution in 2013. This is what the 2013 population would look like if the distribution stayed as it is in 2003.

O - E : This column shows how the age ranges differ (in 2013) from what we might expect given our 2003 population distribution. For example, there are proportionally more people in the 20 to 29-year and the 50 to 74-year ranges than we are used to now in 2003. There are proportionally fewer in the zero to 19 and the 30 to 49 age ranges than we are accustomed to.

Age Trend Analysis attachment II

Age range	O				% change	E expected frequency 2013
	2003	% of 2003 population	(projected) 2013	% of 2013 population		
0 to 4	88285	6.97%	101869	6.85%	-0.12%	103661
5 to 9	89426	7.06%	97523	6.56%	-0.50%	105000
10 to 14	94557	7.47%	97468	6.56%	-0.91%	111025
15 to 19	95291	7.53%	99016	6.66%	-0.87%	111887
20 to 24	75904	6.00%	109064	7.34%	1.34%	89123
25 to 29	77562	6.13%	112473	7.57%	1.44%	91070
30 to 34	95419	7.54%	91954	6.19%	-1.35%	112037
35 to 39	100913	7.97%	90651	6.10%	-1.87%	118488
40 to 44	115153	9.09%	104184	7.01%	-2.09%	135208
45 to 49	109360	8.64%	105881	7.12%	-1.52%	128406
50 to 54	95883	7.57%	116416	7.83%	0.26%	112582
55 to 59	73264	5.79%	107806	7.25%	1.47%	86024
60 to 64	48280	3.81%	91624	6.16%	2.35%	56688
65 to 69	33411	2.64%	65843	4.43%	1.79%	39230
70 to 74	26580	2.10%	39791	2.68%	0.58%	31209
75 to 79	21029	1.66%	24645	1.66%	0.00%	24691
80 to 84	14612	1.15%	16193	1.09%	-0.06%	17157
85 to 89	7548	0.60%	9627	0.65%	0.05%	8863
90 to 90+	3642	0.29%	4596	0.31%	0.02%	4276

Total	1266119		1486624
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By 2013, there will be 220,505 more people in the three county area, a 14.83% increase in population. However, this population increase is not distributed equally across age ranges.

Potential student population changes from 2003 to 2013 in the tri-county area:

Age range	Population change	Proportional change
15 to 19	up 3,725	.87% fewer
20 to 29	up 68,071	2.78% more
30 to 49	down 28,175	6.83% fewer
50 to 74	up 44,062	6.45% more

The Colorado Commission on Higher Education (CCHE) Final Annualized FTE for all Colorado State Colleges

	Total Student FTE											
	FY 91-92	FY 92-93	FY 93-94	FY 94-95	FY 95-96	FY 96-97	FY 97-98	FY 98-99	FY 99-2000	FY 2000-01	FY 2001-02	FY 2002-03
Public Institutions												
Regents of the University of Colorado:												
University of Colorado-Boulder	22,830	22,356	22,272	21,633	21,527	21,683	22,196	22,446	22,882	23,213	23,920	25,254
University of Colorado-Colorado Springs	4,089	3,983	3,916	3,974	4,009	4,084	4,559	4,768	4,968	5,072	5,324	5,846
University of Colorado-Denver	7,007	7,254	7,080	6,955	7,037	6,969	7,057	7,229	7,253	7,571	7,893	8,407
University of Colorado-Health Sciences	2,174	2,268	2,441	2,505	2,539	2,489	2,388	2,435	2,360	2,330	2,410	2,519
State Board of Agriculture:												
Colorado State University-E&G	18,942	19,151	19,173	19,277	19,533	19,667	19,547	19,864	20,088	19,964	20,723	21,525
Colorado State University-PVM	702	692	734	717	723	727	728	737	733	745	745	795
Fort Lewis College	3,793	3,867	4,031	3,946	4,128	4,190	4,167	3,998	4,138	4,019	4,169	4,080
University of Southern Colorado	3,984	4,064	4,040	4,011	3,909	3,683	3,653	3,600	3,629	3,607	3,515	3,448
Trustees of Colorado School of Mines:												
Colorado School of Mines	2,573	2,858	3,006	3,094	3,189	3,242	3,211	3,250	3,276	3,114	3,216	3,331
Board of Trustees Univ. of No. Colorado:												
University of Northern Colorado	9,772	9,706	9,840	9,721	9,554	9,443	9,619	9,916	10,295	10,309	10,329	10,605
Trustees of State Colleges:												
Adams State College	2,378	2,350	2,164	2,255	2,274	2,295	2,177	2,266	2,262	2,143	2,293	2,322
Mesa State College	3,531	3,633	3,734	3,893	4,001	4,073	4,085	4,189	4,141	4,313	4,461	4,651
Metropolitan State College of Denver	12,686	12,499	12,307	12,246	12,087	12,347	12,556	12,317	12,369	12,280	13,227	14,188
Western State College	2,351	2,442	2,157	2,161	2,226	2,280	2,224	2,198	2,179	2,072	2,094	2,141
CCCOES:												
Arapahoe Community College	4,128	4,145	4,110	4,036	4,072	4,090	4,086	4,208	4,140	4,091	4,318	4,688
Colorado Northwestern Community College	861	925	876	815	820	833	866	795	730	754	872	922
Community College of Aurora	2,408	2,555	2,702	2,671	2,619	2,418	2,404	2,577	2,693	2,669	2,814	3,178
Community College of Denver	4,032	4,486	4,603	4,440	4,236	4,227	4,038	4,071	4,026	4,027	4,188	5,042
Front Range Community College	6,234	6,592	6,483	6,350	6,737	6,446	6,500	7,008	7,467	7,680	8,125	9,224
Lamar Community College	637	675	654	630	664	698	737	745	673	674	682	762
Morgan Community College	584	757	846	716	769	815	879	927	959	959	988	928
Northeastern Junior College	1,780	1,825	1,648	1,633	1,593	1,713	1,532	1,579	1,538	1,604	1,594	1,641
Otero Junior College	726	738	799	813	775	805	854	906	959	974	1,092	1,141
Pikes Peak Community College	4,702	4,886	4,586	4,694	4,560	4,804	4,919	5,108	5,290	5,334	5,680	6,396
Pueblo Community College	2,517	2,744	2,675	2,749	2,821	2,911	3,146	3,221	3,332	3,292	3,610	3,903
Red Rocks Community College	3,245	3,643	3,940	4,033	3,953	3,897	4,185	4,398	4,202	4,233	4,204	4,471
Trinidad State Junior College	1,241	1,241	1,243	1,533	1,467	1,567	1,570	1,470	1,464	1,426	1,488	1,584
Local District Colleges:												
Aims Community College	4,509	4,604	4,052	3,820	3,698	3,807	3,779	3,830	3,848	3,813	3,952	3,664
Colorado Mountain College	2,721	2,736	3,010	3,180	3,078	3,099	3,136	3,078	2,927	3,039	2,954	2,857
BOARD SUMMARY:												
Regents of the University of Colorado	36,100	35,861	35,709	35,067	35,112	35,225	36,200	36,878	37,463	38,186	39,547	42,026
State Board of Agriculture	27,421	27,773	27,978	27,950	28,292	28,267	28,096	28,199	28,588	28,335	29,152	29,848
Trustees of the Colorado School of Mines	2,573	2,858	3,006	3,094	3,189	3,242	3,211	3,250	3,276	3,114	3,216	3,331
Board of Trustees Univ. of No. Colorado	9,772	9,706	9,840	9,721	9,554	9,443	9,619	9,916	10,295	10,309	10,329	10,605
Trustees of State Colleges	20,946	20,924	20,362	20,555	20,588	20,995	21,042	20,970	20,951	20,807	22,075	23,301
CCCOES	33,095	35,212	35,165	35,113	35,086	35,224	35,716	37,013	37,472	37,718	39,655	43,879
State Summary	129,907	132,334	132,060	131,500	131,821	132,396	133,884	136,227	138,045	138,470	143,972	152,991
District Summary	7,230	7,340	7,062	7,000	6,776	6,906	6,915	6,908	6,775	6,852	6,906	6,521
Public Summary	137,137	139,674	139,122	138,500	138,597	139,302	140,799	143,135	144,820	145,322	150,879	159,512

The Colorado Commission on Higher Education Final FTE Student Enrollment Report

Public Institutions	Resident Student FTE										
	FY 91-92	FY 92-93	FY 93-94	FY 94-95	FY 95-96	FY 96-97	FY 97-98	FY 98-99	FY 99-2000	FY 2000-01	FY 2001-02
Regents of the University of Colorado:											
University of Colorado-Boulder	15,456	14,809	15,097	14,846	14,632	14,934	15,239	15,243	15,667	15,692	16,007
University of Colorado-Colorado Springs	3,884	3,752	3,669	3,734	3,777	3,840	4,244	4,423	4,602	4,688	4,930
University of Colorado-Denver	6,584	6,794	6,564	6,409	6,426	6,313	6,380	6,627	6,601	6,783	7,065
University of Colorado-Health Sciences	1,930	2,007	2,174	2,248	2,249	2,225	2,150	2,198	2,102	2,096	2,162
State Board of Agriculture:											
Colorado State University-E&G	14,496	14,584	14,531	14,661	14,844	15,157	15,080	15,424	15,657	15,597	16,174
Colorado State University-PVM	331	327	337	326	330	327	352	380	400	422	419
Fort Lewis College	2,854	2,783	2,838	2,764	2,913	2,935	2,866	2,703	2,756	2,672	2,800
University of Southern Colorado	3,711	3,754	3,632	3,549	3,413	3,199	3,136	3,104	3,108	3,086	3,045
Trustees of Colorado School of Mines:											
Colorado School of Mines	1,743	1,910	1,983	2,043	2,122	2,160	2,168	2,281	2,344	2,251	2,358
Board of Trustees Univ. of No. Colorado:											
University of Northern Colorado	8,717	8,651	8,749	8,643	8,403	8,225	8,315	8,573	8,990	9,041	9,088
Trustees of State Colleges:											
Adams State College	1,928	1,931	1,748	1,820	1,833	1,869	1,798	1,898	1,894	1,809	1,920
Mesa State College	3,280	3,320	3,382	3,494	3,589	3,667	3,663	3,779	3,703	3,884	4,030
Metropolitan State College of Denver	12,343	12,162	11,996	11,923	11,767	11,988	12,166	11,909	11,943	11,846	12,761
Western State College	1,584	1,602	1,393	1,417	1,460	1,525	1,478	1,501	1,499	1,432	1,499
CCCOES:											
Arapahoe Community College	3,880	3,849	3,832	3,744	3,832	3,821	3,785	3,832	3,815	3,800	4,080
Colorado Northwestern Community College	782	807	750	697	704	732	768	710	651	666	796
Community College of Aurora	2,359	2,514	2,658	2,603	2,559	2,366	2,349	2,494	2,608	2,595	2,711
Community College of Denver	3,873	4,240	4,365	4,187	3,984	3,973	3,801	3,816	3,762	3,791	3,925
Front Range Community College	5,926	6,187	6,061	5,916	6,329	6,056	6,066	6,554	6,985	7,286	7,719
Lamar Community College	586	612	581	557	580	621	633	649	614	630	640
Morgan Community College	566	712	807	696	744	802	861	911	948	949	979
Northeastern Junior College	1,695	1,724	1,570	1,559	1,515	1,579	1,457	1,500	1,464	1,546	1,513
Otero Junior College	666	677	749	761	735	773	835	887	933	955	1,072
Pikes Peak Community College	4,571	4,717	4,437	4,573	4,436	4,662	4,772	4,994	5,171	5,208	5,507
Pueblo Community College	2,472	2,696	2,623	2,690	2,747	2,831	3,045	3,053	3,175	3,159	3,492
Red Rocks Community College	3,037	3,365	3,598	3,627	3,666	3,720	4,035	4,228	4,034	4,064	4,032
Trinidad State Junior College	1,023	1,049	1,059	1,350	1,298	1,396	1,403	1,308	1,314	1,288	1,340
Local District Colleges:											
Aims Community College	4,454	4,544	3,992	3,760	3,630	3,717	3,636	3,554	3,582	3,576	3,745
Colorado Mountain College	2,344	2,279	2,456	2,547	2,464	2,477	2,483	2,442	2,387	2,445	2,412
BOARD SUMMARY:											
Regents of the University of Colorado	27,854	27,362	27,504	27,237	27,084	27,312	28,013	28,491	28,971	29,258	30,164
State Board of Agriculture	21,392	21,447	21,337	21,299	21,499	21,618	21,435	21,610	21,921	21,778	22,438
Trustees of the Colorado School of Mines	1,743	1,910	1,983	2,043	2,122	2,160	2,168	2,281	2,344	2,251	2,358
Board of Trustees Univ. of No. Colorado	8,717	8,651	8,749	8,643	8,403	8,225	8,315	8,573	8,990	9,041	9,088
Trustees of State Colleges	19,135	19,015	18,519	18,654	18,649	19,049	19,105	19,087	19,038	18,970	20,209
CCCOES	31,436	33,149	33,090	32,960	33,129	33,332	33,810	34,936	35,475	35,938	37,805
State Summary	110,278	111,534	111,182	110,836	110,886	111,696	112,845	114,980	116,739	117,235	122,062
District Summary	6,798	6,823	6,448	6,307	6,094	6,194	6,119	5,996	5,969	6,021	6,157
Public Summary	117,076	118,357	117,630	117,143	116,980	117,890	118,964	120,976	122,708	123,257	128,218

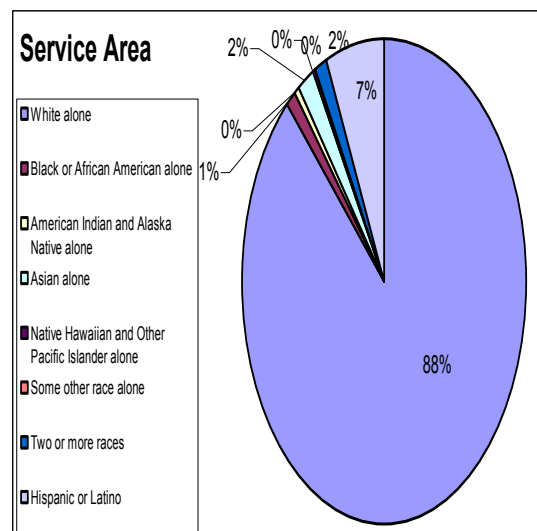
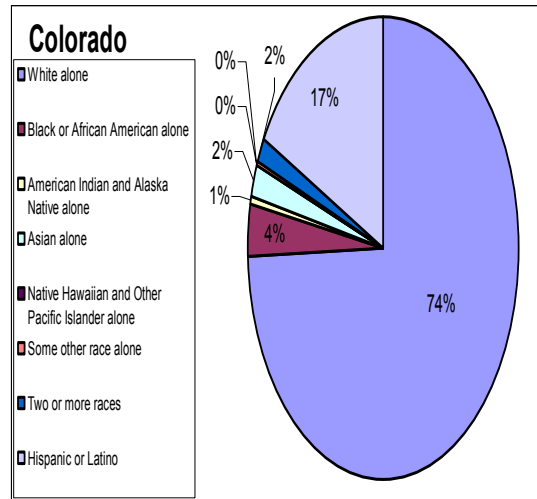
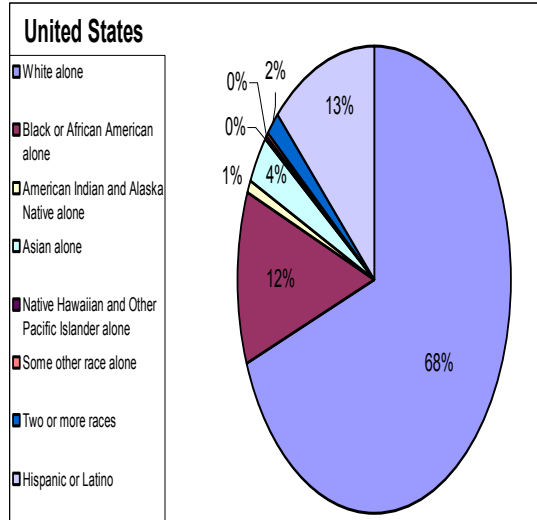
The Colorado Commission on Higher Education Final FTE Student Enrollment Report

Public Institutions	Non-Resident Student FTE										
	FY 91-92	FY 92-93	FY 93-94	FY 94-95	FY 95-96	FY 96-97	FY 97-98	FY 98-99	FY 99-2000	FY 2000-01	FY 2001-02
Regents of the University of Colorado:											
University of Colorado-Boulder	7,374	7,547	7,175	6,787	6,895	6,749	6,957	7,203	7,215	7,521	7,913
University of Colorado-Colorado Springs	205	231	247	240	232	244	315	345	366	385	394
University of Colorado-Denver	423	460	516	546	611	656	677	602	652	788	827
University of Colorado-Health Sciences	244	261	267	257	290	264	238	237	258	234	249
State Board of Agriculture:											
Colorado State University-E&G	4,446	4,567	4,642	4,616	4,689	4,510	4,467	4,440	4,431	4,367	4,550
Colorado State University-PVM	371	366	397	391	393	399	376	357	333	323	325
Fort Lewis College	939	1,084	1,193	1,182	1,215	1,255	1,301	1,295	1,382	1,347	1,369
University of Southern Colorado	273	310	408	462	496	484	517	496	521	521	470
Trustees of Colorado School of Mines:											
Colorado School of Mines	830	948	1,023	1,051	1,067	1,082	1,043	969	933	864	858
Board of Trustees Univ. of No. Colorado:											
University of Northern Colorado	1,055	1,055	1,091	1,078	1,151	1,218	1,304	1,343	1,305	1,268	1,240
Trustees of State Colleges:											
Adams State College	450	419	416	435	441	426	379	368	368	335	374
Mesa State College	251	313	352	399	412	406	422	410	438	429	431
Metropolitan State College of Denver	343	337	311	323	320	359	390	408	427	434	466
Western State College	767	840	764	744	766	755	746	697	680	640	595
CCCOES:											
Arapahoe Community College	248	296	278	292	240	269	301	376	325	291	238
Colorado Northwestern Community College	79	118	126	118	116	101	98	85	79	89	76
Community College of Aurora	49	41	44	68	60	52	55	83	84	74	103
Community College of Denver	159	246	238	253	252	254	237	255	264	235	264
Front Range Community College	308	405	422	434	408	390	434	454	482	394	406
Lamar Community College	51	63	73	73	84	77	104	96	59	44	43
Morgan Community College	18	45	39	20	25	13	18	16	11	10	8
Northeastern Junior College	85	101	78	74	78	134	75	79	74	59	81
Otero Junior College	60	61	50	52	40	32	19	19	25	19	20
Pikes Peak Community College	131	169	149	121	124	142	147	114	118	126	172
Pueblo Community College	45	48	52	59	74	80	101	168	157	133	118
Red Rocks Community College	208	278	342	406	287	177	150	170	168	169	172
Trinidad State Junior College	218	192	184	183	169	171	167	162	150	138	148
Local District Colleges:											
Aims Community College	55	60	60	60	68	90	143	276	266	236	208
Colorado Mountain College	377	457	554	633	614	622	653	636	540	594	542
BOARD SUMMARY:											
Regents of the University of Colorado	8,246	8,499	8,205	7,830	8,028	7,913	8,187	8,387	8,491	8,928	9,383
State Board of Agriculture	6,029	6,327	6,640	6,651	6,793	6,648	6,661	6,588	6,667	6,557	6,714
Trustees of the Colorado School of Mines	830	948	1,023	1,051	1,067	1,082	1,043	969	933	864	858
Board of Trustees Univ. of No. Colorado	1,055	1,055	1,091	1,078	1,151	1,218	1,304	1,343	1,305	1,268	1,240
Trustees of State Colleges	1,811	1,909	1,843	1,901	1,939	1,946	1,937	1,883	1,913	1,837	1,866
CCCOES	1,659	2,063	2,075	2,153	1,957	1,892	1,906	2,077	1,996	1,781	1,850
State Summary	19,630	20,801	20,877	20,664	20,935	20,699	21,038	21,247	21,305	21,235	21,911
District Summary	432	517	614	693	682	712	796	912	806	830	750
Public Summary	20,062	21,318	21,491	21,357	21,617	21,411	21,834	22,159	22,111	22,065	22,660

Populations by Race plus the Ethnicity of Hispanic or Latino

Census 2000 Table P7

	United States	Colorado	Service Area (Zip Code)
Total:	281,421,906	4,301,261	498093
Not Hispanic or Latino:	246,183,425	3,566,162	465334
White alone	194,514,140	3,201,519	439183
Black or African American alone	33,707,230	153,932	5055
American Indian and Alaska Native alone	2,091,206	29,286	2084
Asian alone	10,067,813	91,387	10705
Native Hawaiian and Other Pacific Islander alone	342,743	3,655	355
Some other race alone	447,552	5,255	416
Two or more races	5,012,741	81,128	7536
Hispanic or Latino	35,238,481	735,099	32759
White alone	16,839,585	357,060	18517
Black or African American alone	654,510	5,347	211
American Indian and Alaska Native alone	356,783	13,815	493
Asian alone	104,007	1,919	132
Native Hawaiian and Other Pacific Islander alone	36,039	643	77
Some other race alone	14,989,372	305,297	10395
Two or more races	2,258,185	51,018	2934



Age / Sex - Census 2000 Table P8

	United States	Colorado	Service Area
Male:	137,916,186	2,163,954	248202
Female:	143,505,720	2,137,307	249891
Total:	281,421,906	4,301,261	498093

	United States	Colorado	Service Area
Male	49%	50%	50%
Female	51%	50%	50%

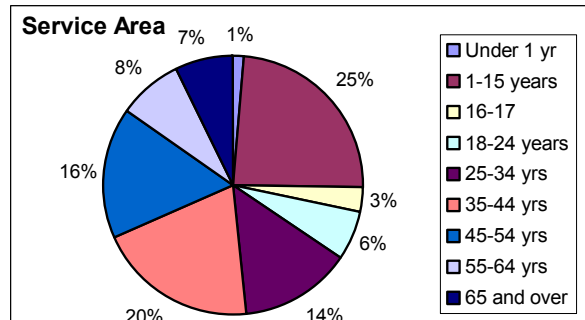
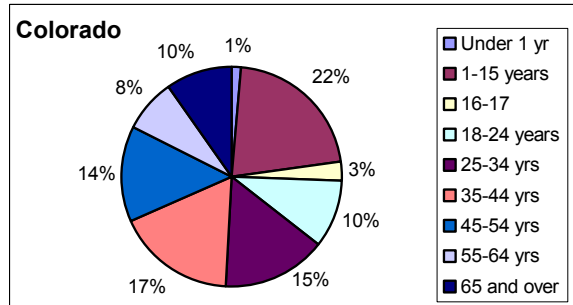
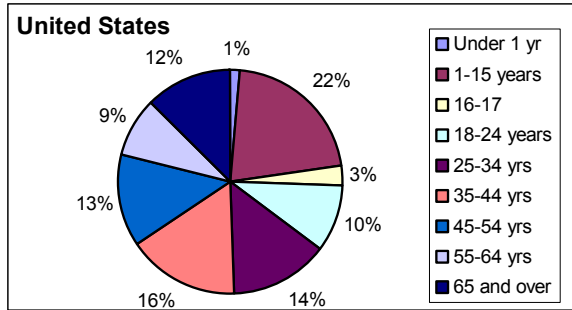
	United States	Colorado	Service Area
Under 1 yr	3,827,009	61,040	7169
1-15 years	60,426,820	915,024	118,164
16-17	7,888,928	120,726	15,237
18-24 years	27,067,510	427,839	30,441
25-34 yrs	39,577,357	664,455	69,666
35-44 yrs	45,905,471	745,402	99,326
45-54 yrs	37,578,609	613,007	81,886
55-64 yrs	24,171,230	337,986	39,608
65 and over	34,978,972	415,782	36,596
TOTAL	281,421,906	4,301,261	498093

Median Household Income - Census 2000 Table P53

	United States	Colorado	Service Area (Zip Code)
Median household income in	41,994	47,203	76731

Per Capita Income - Census 2000 Table P82

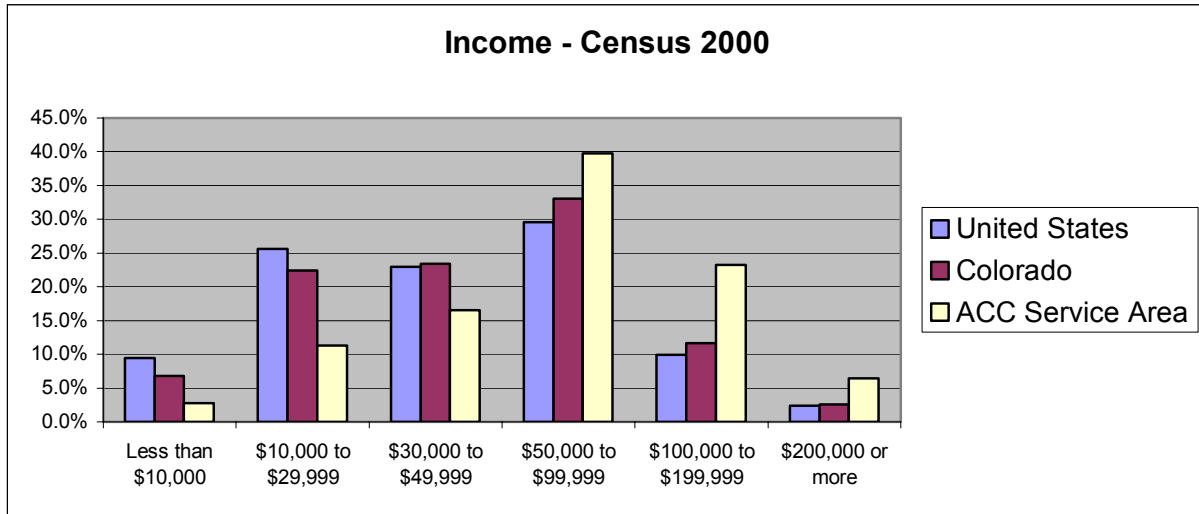
	United States	Colorado	Service Area (Zip Code)
Per capita income in 1999	21,587	24,049	34061



Household income Census 2000 Table P52

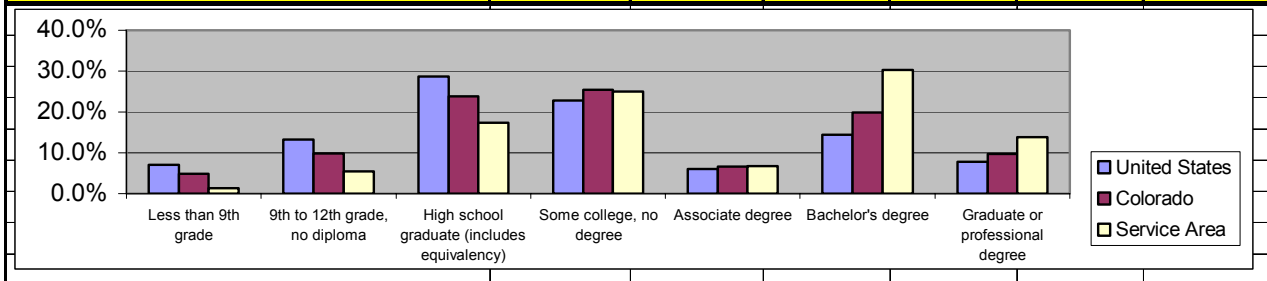
	United States		Colorado		Service Area (Zip Code)	
	Number	Percent	Number	Percent	Number	Percent
Total:	105,539,122	100.0%	1,659,308	100.0%	184,190	100.0%
Less than \$10,000	10,067,027	9.5%	114,658	6.9%	5,205	2.8%
\$10,000 to \$14,999	6,657,228	6.3%	82,584	5.0%	4,257	2.3%
\$15,000 to \$19,999	6,601,020	6.3%	86,761	5.2%	4,589	2.5%
\$20,000 to \$24,999	6,935,945	6.6%	99,236	6.0%	5,398	2.9%
\$25,000 to \$29,999	6,801,010	6.4%	103,455	6.2%	6,545	3.6%
\$30,000 to \$34,999	6,718,232	6.4%	105,527	6.4%	7,149	3.9%
\$35,000 to \$39,999	6,236,192	5.9%	99,230	6.0%	7,701	4.2%
\$40,000 to \$44,999	5,965,869	5.7%	97,371	5.9%	8,011	4.3%
\$45,000 to \$49,999	5,244,211	5.0%	85,288	5.1%	7,635	4.1%
\$50,000 to \$59,999	9,537,175	9.0%	162,096	9.8%	16,701	9.1%
\$60,000 to \$74,999	11,003,429	10.4%	189,567	11.4%	24,361	13.2%
\$75,000 to \$99,999	10,799,245	10.2%	197,339	11.9%	32,220	17.5%
\$100,000 to \$124,999	5,491,526	5.2%	101,257	6.1%	21,041	11.4%
\$125,000 to \$149,999	2,656,300	2.5%	49,315	3.0%	11,299	6.1%
\$150,000 to \$199,999	2,322,038	2.2%	42,707	2.6%	10,427	5.7%
\$200,000 or more	2,502,675	2.4%	42,917	2.6%	11,651	6.3%

	United States	Colorado	ACC Service Area
Less than \$10,000	9.5%	6.8%	2.8%
\$10,000 to \$29,999	25.6%	22.4%	11.3%
\$30,000 to \$49,999	23.0%	23.4%	16.5%
\$50,000 to \$99,999	29.6%	33.1%	39.8%
\$100,000 to \$199,999	9.9%	11.7%	23.2%
\$200,000 or more	2.4%	2.6%	6.4%
TOTAL	100.0%	100.0%	100.0%



Age by Educational Attainment for the Population 18 years and over - Census 2000 PCT25

	United States		Colorado		Service Area (Zip Code)	
	#	%	#	%	#	%
18 to 24 years:	27,067,510		427,839		30441	
Less than 9th grade	1,079,676	4.0%	19,377	4.5%	556	1.8%
9th to 12th grade, no diploma	5,754,951	21.3%	87,294	20.4%	6812	22.4%
High school graduate (includes equivalency)	7,737,771	28.6%	118,154	27.6%	8487	27.9%
Some college, no degree	9,284,898	34.3%	148,837	34.8%	9535	31.3%
Associate degree	1,095,693	4.0%	15,897	3.7%	1290	4.2%
Bachelor's degree	1,964,109	7.3%	35,982	8.4%	3557	11.7%
Graduate or professional degree	150,412	0.6%	2298	0.5%	204	0.7%
25 to 34 years:	39,577,357		664,455		69666	
Less than 9th grade	1,880,372	4.8%	30,337	4.6%	596	0.9%
9th to 12th grade, no diploma	4,492,287	11.4%	57,515	8.7%	2566	3.7%
High school graduate (includes equivalency)	10,223,614	25.8%	134,496	20.2%	10042	14.4%
Some college, no degree	9,123,703	23.1%	160,525	24.2%	17518	25.1%
Associate degree	2,957,508	7.5%	50,279	7.6%	4882	7.0%
Bachelor's degree	8,045,308	20.3%	178,908	26.9%	27080	38.9%
Graduate or professional degree	2,854,565	7.2%	52,395	7.9%	6982	10.0%
35 to 44 years:	45,905,471		745,402		99326	
Less than 9th grade	2,110,806	4.6%	24,902	3.3%	614	0.6%
9th to 12th grade, no diploma	4,757,487	10.4%	54,184	7.3%	3260	3.3%
High school graduate (includes equivalency)	13,068,020	28.5%	171,564	23.0%	14720	14.8%
Some college, no degree	10,354,927	22.6%	180,298	24.2%	23538	23.7%
Associate degree	3,732,108	8.1%	64,773	8.7%	8006	8.1%
Bachelor's degree	7,883,401	17.2%	169,687	22.8%	34493	34.7%
Graduate or professional degree	3,998,722	8.7%	79,994	10.7%	14695	14.8%
45 to 64 years:	61,749,839		950,993		121494	
Less than 9th grade	3,903,742	6.3%	33,187	3.5%	1068	0.9%
9th to 12th grade, no diploma	6,499,106	10.5%	60,559	6.4%	3545	2.9%
High school graduate (includes equivalency)	17,696,654	28.7%	209,511	22.0%	18703	15.4%
Some college, no degree	13,394,914	21.7%	241,824	25.4%	30178	24.8%
Associate degree	3,958,821	6.4%	66,990	7.0%	9082	7.5%
Bachelor's degree	9,258,616	15.0%	197,947	20.8%	35799	29.5%
Graduate or professional degree	7,037,986	11.4%	140,975	14.8%	23119	19.0%
65 years and over:	34,978,972		415,782		36596	
Less than 9th grade	5,860,557	16.8%	45,922	11.0%	1898	5.2%
9th to 12th grade, no diploma	6,211,268	17.8%	56,433	13.6%	3355	9.2%
High school graduate (includes equivalency)	11,180,693	32.0%	128,789	31.0%	10101	27.6%
Some college, no degree	5,478,051	15.7%	84,963	20.4%	8500	23.2%
Associate degree	864,396	2.5%	11,826	2.8%	1149	3.1%
Bachelor's degree	3,130,467	8.9%	52,486	12.6%	7290	19.9%
Graduate or professional degree	2,253,540	6.4%	35,363	8.5%	4303	11.8%
Total - all ages 18 and above	209,279,149		3,204,471		357523	
Less than 9th grade	14,835,153	7.1%	153,725	4.8%	4,732	1.3%
9th to 12th grade, no diploma	27,715,099	13.2%	315,985	9.9%	19,538	5.5%
High school graduate (includes equivalency)	59,906,752	28.6%	762,514	23.8%	62,053	17.4%
Some college, no degree	47,636,493	22.8%	816,447	25.5%	89,269	25.0%
Associate degree	12,608,526	6.0%	209,765	6.5%	24,409	6.8%
Bachelor's degree	30,281,901	14.5%	635,010	19.8%	108,219	30.3%
Graduate or professional degree	16,295,225	7.8%	311,025	9.7%	49,303	13.8%



Top 50 Occupations by Annual Growth Rate

Denver Metro OCCUPATIONAL PROJECTIONS 1998-2008

Colorado Department of Labor & Employment
Labor Market Information
Workforce Research & Analysis

Prepared by Margaret Puryear. Projections are from the Colorado Department of Labor & Employment: <http://www.coworkforce.com/lmi/oeo/DenverMetro/Top50GR.htm>. The additional listing of schools where programs are offered was compiled by visiting each school website along with the CCHE (Colorado Commission on Higher Education) website.

OES Code	Occupational Title	Employment		Average Annual					AIMS	ACC	CMC	CNCC	CCA	CCD	FRCC	LCC	MCC	NJC	OJC	PPCC	PCC	RRCC	TSJC	EnlyG	Picket
		1998	2008	Absolute Growth	Growth	Replacement	Openings																		
25104	Computer Support Specialists	9,460	22,090	1,263	13.40%	60	1,323	ASSOC	A,C	A,C	A,C	A,C	A,C	A,C	A,C	A,C	A,C	A	A,C	A	A,C	A,C		C	
25103	Database Administrators	1,630	3,510	188	11.50%	30	218	BACH													A		C		
25102	Systems Analysts	9,300	19,390	1,009	10.80%	60	1,069	BACH																	
22127	Computer Engineers	8,580	16,610	803	9.40%	50	853	BACH																	
15032	Lawn Service Managers	980	1,780	80	8.20%	10	90	OJT																	
66011	Home Health Aides	3,290	5,520	223	6.80%	50	273	OJT/CERT	C	C	C		C	C		C	C	C	C	C	C	C	C	C	
87317	Plasterers & Stucco Masons	760	1,250	49	6.40%	20	69	OJT																	
56008	Mail Mach Oprs, Prepara/Handling	1,220	2,000	78	6.40%	40	118	OJT																	
87805	Sheet Metal Duct Installers	550	900	35	6.40%	10	45	OJT																	
49026	Telmktrs/Door Sales/Related Wkrs	7,460	12,190	473	6.30%	190	663	OJT																	
68035	Personal/Home Care Aides	1,200	1,960	76	6.30%	30	106	OJT/CERT	C	C	C		C	C		C	C	C	C	C	C	C	C	C	
27308	Social/Human Service Assistants	2,890	4,710	182	6.30%	80	262	OJT					A,C						A,C	C	A				
87302	Brickmasons/Blockmasons	600	970	37	6.20%	10	47	OJT																	
13017	Engr/Nat Sci/Comp/Info Sys Mgrs	6,450	10,400	395	6.10%	110	505	BACH																	
87602	Carpet Installers	1,210	1,940	73	6.00%	30	103	OJT																	
31317	Instructors, Adult (Non-VocEd)	1,980	3,140	116	5.90%	20	136	BACH +																	
87808	Roofers	2,560	4,050	149	5.80%	90	239	OJT	C												C	C		C	
63017	Correctional Officers	1,860	2,940	108	5.80%	50	158	ASSOC	A,C	A,C	A,C	A,C	A,C	A		A,C	A,C	A	A,C	A,C	A,C				
34056	Actors/Directors/Producers	1,060	1,670	61	5.80%	20	81	OJT			A	A	A			AC	A	A		A					
15017	Construction Managers	4,210	6,570	236	5.60%	70	306	ASSOC/BACH		A				A							A	A,C			
43017	Sales Agents, Business Services	6,180	9,620	344	5.60%	130	474	OJT																	
25315	Financial Analysts, Statistical	640	990	35	5.50%	10	45	BACH +																	
68026	Flight Attendants	2,110	3,260	115	5.50%	50	165	OJT																	
68021	Ushers/Lobby Atts/Ticket Takers	520	800	28	5.40%	10	38	OJT																	
27307	Residential Counselors	1,420	2,180	76	5.40%	30	106	BACH	C																
66005	Medical Assistants	3,010	4,620	161	5.30%	70	231	OJT/ASSOC	C	C	C		C	C		C				A,C		C	C		
21108	Loan Counselors & Officers	3,970	6,040	207	5.20%	90	297	BACH																	
34058	Athletes/Coaches/Umpires/Rel	830	1,260	43	5.20%	30	73	OJT																	
72002	First Line Supvs: Ag/Forest/Fis	930	1,410	48	5.20%	10	58	BACH																	
53123	Adjustment Clerks	5,870	8,860	299	5.10%	40	339	OJT																	
87108	Drywall Installers	2,620	3,950	133	5.10%	40	173	OJT	C													C		C	
87111	Tapers	1,360	2,050	69	5.10%	20	89	OJT	C													C		C	
98312	Carpenters/Related Helpers	1,760	2,650	89	5.10%	80	169	OJT	C													C	C		
87311	Cnort Fnshrs/Cmnt Msns/Trzo Wkrs	2,050	3,080	103	5.00%	20	123	OJT														C	C	C	
87102	Carpenters	9,490	14,220	473	5.00%	250	723	OJT	C													C	C		
66002	Dental Assistants	2,520	3,770	125	5.00%	40	165	ASSOC				A	A	C	C				A,C	A,C			C	C	
85802	Heat/AC/Refrig Mechns/Instllrs	2,870	4,290	142	4.90%	50	192	OJT/ASSOC							A,C							A,C		C	

734 Lanes Assoc/Bookng	350	420	470	480	200	760	OT			AC				A		
340 Labr/Leages	610	900	30	480	10	40 ASSOCIAT	AC							A		
400 Lanes Assoc/Ch	450	670	20	480	200	40	OT									
350 Physical Assist	510	780	20	480	10	60	BAH								A	
340 Technical Wkrs	600	1300	40	480	20	60	BAH									
2000 Labr/Lead Assist	240	630	10	480	20	60 ASSOCI	AC	A	AC	AC	C			C		C
600 Minors	180	600	30	480	30	60	OT									
600 Technical/Inst/Ch	470	630	20	480	140	40	OT	AC								
800 Est/Supv/Conf/Tr	730	1000	60	480	180	60	BAH									
3400 Labr/Equip	300	450	40	470	30	60	BAH									
5000 Labr/Mech/Leas	600	1300	40	470	30	70	OT									
3300 Labr/Insp	1200	1800	60	470	30	60 ASSOC		A	A	C			AC	AC	C	C
6700 Est/Comdr/Wkrs	640	940	30	470	10	40	OT									

A-Associate Dept

C-Office

OT-Over Job-Train

Top Jobs requiring an Associate's Degree

Denver Metro OCCUPATIONAL PROJECTIONS 1998-2008

Colorado Department of Labor & Employment
Labor Market Information
Workforce Research & Analysis

Prepared by Margaret Puryear. Projections are from the Colorado Dept. of Labor & Employment:

<http://www.coworkforce.com/lmi/oeo/DenverMetro/Associates.htm>. The additional listing of schools where programs are offered was compiled by visiting each school website along with the CCHE (Colorado Commission on Higher Education) website.

Jobs Requiring an Associate's Degree																								
OES Code	Occupational Title	Employment		Average Annual				AIMS	ACC	CMC	CNCC	CCA	CCD	FRCG	LCC	MCC	NJC	OJC	PPCC	PCC	RCC	TSJC	Emily	Pickett
		1998	2008	Absolute Growth	Growth Rate	Replacements	Openings																	
24502	Biological/Agric Techns/Technls	560	600	40	0.70%	10	14	A								A,C	A,C							
32925	Cardiology Technologists/Techns	120	170	50	4.20%	0	5																	
24505	Chemical Techns/Thnls, Ex Health	750	910	160	2.10%	20	36																	
22502	Civil Engineering Techns/Technls	750	1,000	250	3.30%	20	45	A,C												A		A,C		
25104	Computer Support Specialists	9,460	22,090	12,630	13.40%	60	1,323	A,C	A,C	A,C	A,C	A,C	A,C	A,C	A,C	A,C	A,C	A	A,C	A,C	A,C	A,C	A,C	C
32908	Dental Hygienists *	1,230	1,810	580	4.70%	30	88			A		A	C						A,C	A,C			C	C
32523	Dietetic Technicians	70	70	0	0.00%	0	0						A											
22505	Elect & Electronic Techns/Tehnls	3,250	3,930	680	2.10%	70	138	A,C	A,C	C**			A**	A,C					A,C	A,C				C
39011	Funeral Directors & Morticians	120	140	20	1.70%	0	2	A																
22508	Ind Engineering Techns/Technls	290	300	10	0.30%	10	11																	
28302	Law Clerks	360	350	-10	-0.30%	0	-1																	
22511	Mechnl Engineering Techns/Tehnls	830	1,040	210	2.50%	20	41	C	A															
32911	Med Records/Health Info Techns	490	690	200	4.10%	10	30	A,C	A,C				A,C						A,C					C
32905	Med/Clinical Lab Technicians	1,030	1,260	230	2.20%	10	33	A,C																
32914	Nuclear Medical Technologists	160	190	30	1.90%	0	3																	
66021	Occ Therapy Assistants/Aides	140	190	50	3.60%	0	5													A				
28305	Paralegals & Legal Assistants	2,440	3,630	1,190	4.90%	20	139	A,C		A	A,C	A,C							A					C
24511	Petroleum Techns/Technologists	330	350	20	0.60%	10	12																	
66017	Physical Therapy Assists/Aides	840	1,140	300	3.60%	20	50	A							A					A				
32913	Radiation Therapists	120	120	0	0.00%	0	0																	
32919	Radiologic Techns/Technologists	1,110	1,300	190	1.70%	20	39	A				A								A	A			
32502	Registered Nurses	16,840	21,130	4,290	2.50%	280	709	A,C	A,C	A		A,C	A,C	A,C	A	C	C	A,C	A,C			A,C	C	C
32302	Respiratory Therapists	760	1,070	310	4.10%	10	41					A							A					C
32951	Veterinary Technologists/Techns	520	680	160	3.10%	10	26		A			A	A											

* Dental hygienist and Dental Assistant are combined

** Program is under review for that college

A - Associate Degree

C - Certificate

The 30 Most Declining Occupations by Percentage			
1998-2008			
Denver Metro		State	
Occupational Title	Average Annual Change	Occupational Title	Average Annual Change
Typesetting/Composing Mach Oprs	-5.60%	Roustabouts, Oil/Gas	-6.20%
Power Generating Plant Operators	-4.30%	Typesetting/Composing Mach Oprs	-5.60%
Meat/Poultry/Fish Cutters, Hand	-4.10%	Wellhead Pumpers	-5.40%
Slaughterers & Meat Packers	-4.00%	Derrick Operators, Oil/Gas	-5.10%
Station Instllrs/Rprs, Telephone	-3.60%	Service Unit Oprs, Oil/Gas/Mine	-5.00%
Peripheral Equipment Operators	-3.60%	Petroleum Techns/Technologists	-4.90%
Film Strippers, Printing	-2.90%	Roof Bolters, Mining	-4.30%
Dairy Process Equip Opers/Settrs	-2.50%	Metal Pours/Casters, Basic Shape	-3.70%
Computer Oprs, Ex Peripheral Eq	-1.90%	Mining & Related Managers	-3.60%
Boiler Opers/Tndrs, Low Pressure	-1.80%	Railroad Brake/Signal/Switch Ops	-3.30%
EKG Technicians	-1.70%	Paste-Up Workers	-3.30%
Letterpress Operators	-1.60%	Mine Machinery Mechanics	-3.10%
Fitters, Structural Metal, Prec	-1.40%	Peripheral Equipment Operators	-3.10%
Mach Maint Mechns: Water/Power	-1.40%	Shuttle Car Operators	-3.10%
Marking Clerks	-1.40%	Photoengravers	-2.70%
Central Office Operators	-1.40%	EKG Technicians	-2.60%
Roastng/Dryng Oprs/Tndrs, Fd/Tob	-1.30%	Petroleum Engineers	-2.50%
Switchboard Operators	-1.20%	Station Instllrs/Rprs, Telephone	-2.30%
Woodwrkng Mach Ops/Tndrs, Ex Swg	-1.20%	Film Strippers, Printing	-2.20%
Compositors/Typesetters, Pre	-1.20%	Food Batchmakers	-2.00%
Statement Clerks	-1.10%	Slaughterers & Meat Packers	-1.70%
Welfare Eligibility Workers	-1.00%	Dairy Process Equip Opers/Settrs	-1.70%
Offset Lithographic Press Opers	-0.90%	Aircraft Assemblers, Precision	-1.60%
Machine Forming Oprs/Tndrs, M/P	-0.80%	Separating/Still Mach Sttrs/Oprs	-1.50%
Proofreaders & Copy Markers	-0.70%	Petro Refinery/Ctrl Panel Opers	-1.50%
Word Processors & Typists	-0.70%	Computer Oprs, Ex Peripheral Eq	-1.00%
Bank Tellers	-0.70%	Announcers, Radio & TV	-0.80%
Announcers, Radio & TV	-0.60%	Switchboard Operators	-0.60%
Data Entry Keyers, Composing	-0.60%	Barbers	-0.60%
Meter Readers, Utilities	-0.60%	Word Processors & Typists	-0.30%

The 30 Most Declining Occupations by Absolute Number				
1998-2008				
Denver Metro			State	
Occupational Title	Average Annual Change		Occupational Title	Average Annual Change
Computer Oprs, Ex Peripheral Eq	-46		Slaughterers & Meat Packers	-50
Meat/Poultry/Fish Cutters, Hand	-44		Computer Oprs, Ex Peripheral Eq	-33
Switchboard Operators	-32		Roustabouts, Oil/Gas	-26
Bank Tellers	-27		Food Batchmakers	-25
Station Instllrs/Rprs, Telephone	-21		Switchboard Operators	-20
Word Processors & Typists	-18		Petroleum Techns/Technologists	-19
Film Strippers, Printing	-11		Mining & Related Managers	-16
Offset Lithographic Press Opers	-9		Station Instllrs/Rprs, Telephone	-15
Slaughterers & Meat Packers	-8		Wellhead Pumpers	-14
Mach Maint Mechns: Water/Power	-7		Railroad Brake/Signal/Switch Ops	-14
Welfare Eligibility Workers	-6		Word Processors & Typists	-14
Typesetting/Composing Mach Opers	-5		Petroleum Engineers	-13
Letterpress Operators	-5		Film Strippers, Printing	-10
Food Batchmakers	-5		Service Unit Opers, Oil/Gas/Mine	-9
Peripheral Equipment Operators	-5		Announcers, Radio & TV	-8
Power Generating Plant Operators	-3		Derrick Operators, Oil/Gas	-8
Boiler Opers/Tndrs, Low Pressure	-3		Peripheral Equipment Operators	-8
Woodwrkng Mach Opers/Tndrs, Ex Swg	-3		Typesetting/Composing Mach Opers	-7
Machine Forming Opers/Tndrs, M/P	-3		Barbers	-6
Machine Tool Cutting Opers, M/P	-3		Mine Machinery Mechanics	-5
Compositors/Typesetters, Pre	-3		Metal Pours/Casters, Basic Shape	-5
Marking Clerks	-3		Roof Bolters, Mining	-4
Central Office Operators	-3		Paste-Up Workers	-3
Statement Clerks	-3		Separating/Still Mach Sttrs/Opers	-3
Announcers, Radio & TV	-3		Aircraft Assemblers, Precision	-3
Dairy Process Equip Opers/Settrs	-2		EKG Technicians	-3
Butchers & Meatcutters, Retail	-2		Dairy Process Equip Opers/Settrs	-2
Meter Readers, Utilities	-2		Photoengravers	-2
Postal Mail Carriers	-2		Petro Refinery/Ctrl Panel Opers	-2
Proofreaders & Copy Markers	-2		Shuttle Car Operators	-2

Resources

Resources

- AAHE** American Association of Community Colleges – Fast Facts Link:
<http://www.aacc.nche.edu/Template.cfm?Section=AboutCommunityColleges>
- AMSTAT** American Statistical Association: <http://www.amstat.org/index.html>
- Bureau of Economic Analysis:** <http://www.bea.doc.gov/>
- Local area personal income by county, metropolitan area, BEA Economic areas, State Metropolitan /non metropolitan
 - Economic articles from the survey of current business
 - National Data provide bench mark information
 - Methodologies, papers and presentations
- CIP code** Classification of Instructional Program code – 6-digit "universal" code assigned to each academic program and subject area that allows for consistent categorization of similar programs nationwide. Reference:
<http://nces.ed.gov/pubs2002/cip2000/>
- CCHE** Colorado Commission on Higher Education:
http://www.state.co.us/cche_dir/heccche.html
CCHE Information and Research:
<http://www.state.co.us/cche/I&R/index.html>
Finding a Major at Colorado Public Two-Year Colleges and Universities :
<http://www.state.co.us/cche/conguide/2001/index.html>
- CCCNS** Colorado Common Course Numbering System – further information can be found at: <http://www.cccs.edu/ccns/Home.html>
- CDE** Colorado Department of Education:
http://www.cde.state.co.us/index_home.htm
Colorado Department of Education Statistics:
http://www.cde.state.co.us/index_stats.htm
Graduates by high school:
<http://www.cde.state.co.us/cdereval/2000GradsbySchoolLink.htm>
Colorado Online Learning Findings and Recommendations:
<http://www.cde.state.co.us/edtech/download/eltf-findings.pdf>
- CDLE** Colorado Department of Labor and Employment reference:
<http://www.coworkforce.com/>
Colorado Dept. of Labor and Employment Navigator
Occupational projections for Colorado State and Denver Metro by
Occupational group
Occupational Wages by County and occupational group

(Average hourly wage, 25th and 74th percentiles)
Labor force by County, Annual and monthly data
Employers' listing by county
Industry growth by county (employment)

<http://navigator.cdle.state.co.us/>

Jobs Requiring Short-Term On-The-Job Training:

<http://www.coworkforce.com/lmi/oeo/DenverMetro/ShortTermTr.htm>

Jobs Requiring Moderate-Term On-The-Job Training:

<http://www.coworkforce.com/lmi/oeo/DenverMetro/ModTermTr.htm>

Jobs Requiring Long-Term On-The-Job Training:

<http://www.coworkforce.com/lmi/oeo/DenverMetro/LongTermTr.htm>

Jobs Requiring an Associate's Degree:

<http://www.coworkforce.com/lmi/oeo/DenverMetro/Associates.htm>

Jobs Requiring Bachelor's Degree:

<http://www.coworkforce.com/lmi/oeo/DenverMetro/Bachelors.htm>

30 Most Declining Occupations by Absolute Number:

<http://www.coworkforce.com/lmi/oeo/DenverMetro/30declabs.htm>

30 Most Declining Occupation by Rate:

<http://www.coworkforce.com/lmi/oeo/DenverMetro/30decpdmvc.htm>

Top 50 by Growth Rate:

<http://www.coworkforce.com/lmi/oeo/DenverMetro/Top50GR.htm>

Colorado Dept. of Local Affairs

Data on population

Households by income

Various county data

Mapping data

Colorado Economic & Demographic Information System (CEDIS)

County and Municipal Financial Data

<http://www.dlg.oem2.state.co.us/demog/demog.htm>

<http://www.dola.state.co.us/DataEtc.htm>

Colorado Regional Economic Forecasting - Local, regional and national economies

<http://www.cbef-colorado.com/>

Community College Survey of Student Engagement

<http://www.ccsse.org/>

Cooperative Institutional Research Program (CIRP) "is a national longitudinal study of the American higher education system established in 1966 at the American Council on Education. The CIRP is the nation's largest and oldest empirical study of higher education, involving data on some 1,800 institutions and over 11 million students. It is regarded as the most comprehensive source of information on college students. The annual report of the CIRP Freshman Survey provides normative data on each year's entering college students." <http://www.gseis.ucla.edu/heri/cirp.html>

CNCTYC Council of North Central Two Year Colleges
<http://cnctyc.kcmetro.cc.mo.us/Mainmenu.htm>

FedStats: "The gateway to statistics from over 100 U.S. federal agencies including international comparisons, national, state, county, and local. Published collections of statistics available online including the Statistical Abstract of the United States. Agencies listed alphabetically with descriptions of the statistics they provide and links to their websites, contact information, and key statistics. www.fedstats.gov

FERPA Family Educational Rights and Privacy Act of 1974 – governs student rights concerning their education records including right to inspect and review, right to seek amendments to records, and the right to have some control over the disclosure of information from their records. <http://www.ed.gov/offices/OII/fpc/>

IPEDS Integrated Postsecondary Education Data System – mandated federal reporting system administered through NCES.
<http://nces.ed.gov/ipeds/>

Local Chambers of Commerce:
http://www.state.co.us/business_dir/chambers.html

NCES National Center for Education Statistics - <http://nces.ed.gov/>

National Study of School Evaluation (NSSE) is a non-profit educational research and development organization founded in 1933 by the regional school accreditation commissions in the United States. The NSSE's current scope of work includes a comprehensive series of publications and services to support data-driven and research-based school improvement planning. <http://www.nsse.org/index.html>

Program Approval Process through CCCS to approve academic programs.
<http://ctep.ccoes.edu/progappr/login.jsp>

SBCCOES State Board for Community Colleges and Occupational Education System – a governing body.
<http://www.ccs.edu/Docs/SBCCOE/Policies/Foreword.html>

Office of State Planning and Budgeting: special reports and research section can be a useful resource for writing narrations, bench mark information etc.
http://www.state.co.us/gov_dir/govnr_dir/ospb/

Statistics reference site <http://davidmlane.com/hyperstat/index.html>

U.S. Census Bureau: <http://www.census.gov/>

American Factfinder <http://factfinder.census.gov/servlet/BasicFactsServlet>
Quick Facts <http://quickfacts.census.gov/qfd/index.html>

U.S. Department of Education: <http://www.ed.gov/index.jsp>