

Labor Market Information  
 Prepared by the Office of Institutional Research  
 Spring 2009

**Purpose:**

The purpose of this study is to understand the current labor market and how Citrus College is doing in terms of preparing students for the labor market. Using the data the Economic Modeling Specialists Inc. we look at the comparison of job growths in various industries. The comparison is done based on regional information (job growth within zip codes surrounding Citrus College district), state and national. Based on the growth data provided, we will compare with Citrus College enrollment and course offering data and evaluate our performance in producing an effective labor force.

**Data:**

Table 1 gives a brief comparison of job industries between regional state and national. The 10 year job growth projection is from 2008-2018. In addition, Figure 1 gives a visual display of what sector has the highest projected job growth.

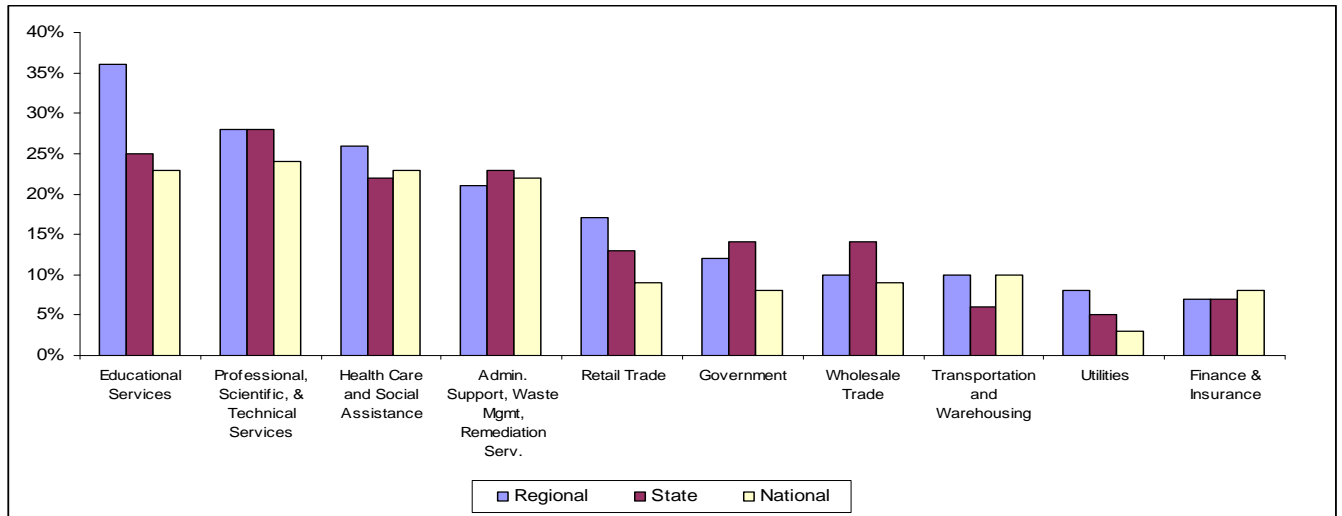
**Table 1**

Regional, State, and National Job Growth Comparison  
 2008-2018 Projection

Industry	Regional	State	National
Educational Services	36%	25%	23%
Professional, Scientific, & Technical Services	28%	28%	24%
Health Care and Social Assistance	26%	22%	23%
Admin. Support, Waste Mgmt, Remediation Serv.	21%	23%	22%
Retail Trade	17%	13%	9%
Government	12%	14%	8%
Wholesale Trade	10%	14%	9%
Transportation and Warehousing	10%	6%	10%
Utilities	8%	5%	3%
Finance & Insurance	7%	7%	8%
Information	5%	15%	10%
Construction	1%	9%	11%
Arts, Entertainment, and Recreation	-1%	17%	20%
Other Services except Public Administration	-1%	6%	10%
Agriculture	-2%	4%	4%

Figure 1.

Top 10 Job Industries – Regional, State, and National



Based on the data, the Educational Services sector has the highest growth in Regional and a fairly high job growth rate within the State as well as the Country. Jobs within the Educational Services sector include Postsecondary teachers, Elementary School teachers, and teacher assistants. It should be noted that while the job growth for the Educational sector hovers around 36% **the projected growth for elementary school teachers is an astounding 56%**. Within the Health Care sector, despite the projected 26% growth, medical assistants and registered nurses are expected to have job growths of 43 and 31%, respectively. With high demands in the industry for teachers and nurses, it is important to see how are we preparing our students.

Table 2 displays the number of sections offered within the vocational departments and they are sorted based on the most number of sections offered based on Fall 2007 course data.

**Table 2**

Course Sections Offered based on Vocational Departments

	Fall 2003	Fall 2004	Fall 2005	Fall 2006	Fall 2007
<b>COS</b>	33	37	35	35	34
<b>NRS</b>	28	32	41	36	33
<b>CHLD</b>	40	46	38	29	30
<b>MUS</b>	5	6	8	7	27
<b>BUS</b>	16	20	23	24	23
<b>CSIS</b>	29	32	33	19	20
<b>DRAF</b>	13	18	20	26	20
<b>DENT</b>	14	15	16	13	17
<b>REC</b>	12	16	16	12	16
<b>ACCT</b>	12	13	11	13	15
<b>AJ</b>	12	14	13	15	14
<b>ART</b>	12	14	11	8	13
<b>AUTO</b>	13	18	17	16	10
<b>COMM</b>	8	10	11	14	9
<b>ELEC</b>	6	8	8	8	8
<b>PHTO</b>	5	8	7	5	7
<b>ENGR</b>	4	5	6	7	7
<b>HEAL</b>	1	8	9	6	6
<b>REAL</b>	1	4	5	7	5
<b>OFF</b>	6	6	7	7	5

Based on our data, Cosmetology has the most sections offered, follow by Nursing and Child Development. Music, Business, and Computer Information Technology follow suit.

Table 3 gives the number of students enrolled in vocational education courses from the Academic year 2003-2004 to 2007-2008

**Table 3**

**Enrollment of students in Voc Ed Courses  
2003-2004 to 2007-2008**

	<b>2003-2004</b>	<b>2004-2005</b>	<b>2005-2006</b>	<b>2006-2007</b>	<b>2007-2008</b>
<b>Business</b>	1,171	1,256	1,424	1,318	1,442
<b>Computer Science &amp; Information Systems</b>	1,229	1,390	1,133	861	1,135
<b>Child Development</b>	1,002	1,117	960	847	1,023
<b>Accounting</b>	727	821	744	723	779
<b>Music</b>	133	185	191	185	649
<b>Nursing</b>	589	770	847	659	626
<b>Administration of Justice</b>	677	647	563	498	609
<b>Cosmetology</b>	579	544	545	552	481
<b>Recording Technology</b>	324	352	331	310	368
<b>Automotive Technology</b>	478	563	509	476	349
<b>Health Sciences</b>	101	272	232	278	295
<b>Water Technology</b>	167	207	170	171	260
<b>Office Technology</b>	298	242	264	247	256
<b>Photography</b>	208	289	267	250	251
<b>Art</b>	215	230	202	190	230
<b>Public Works</b>	135	137	121	96	221
<b>Electronics</b>	163	204	190	196	191
<b>Drafting Technology</b>	191	182	191	167	176
<b>Dance</b>	63	57	56	85	151
<b>Theatre Arts</b>	44	68	87	71	148
<b>Heating &amp; Air Conditioning</b>	95	85	92	61	91
<b>Forestry</b>	94	91	95	80	82
<b>Dental Assisting</b>	73	77	103	82	81
<b>Medium &amp; Heavy Diesel-Truck Technology</b>	83	83	72	75	61
<b>Motorcycle Technology</b>		26	48	22	58
<b>Library Technology</b>	34	46	32	44	56

Business has the highest number of students enrolled in vocational courses; follow by Computer Science, Child Development, and Accounting. Nursing has a relatively smaller number in comparison to other departments despite having higher number of sections. This is in part due to the fact that Nursing is a highly competitive major and the class size is smaller than other classes on campus.

Tables 4 and 5 give the success and retention rates of Vocational Courses and for Citrus College respectively. It seems that students in Vocational courses are more likely to succeed as well as retained than regular courses.

**Table 4**

**Success & Retention in Vocational Courses  
Fall 2003 – Fall 2007**

	Fall 2003	Fall 2004	Fall 2005	Fall 2006	Fall 2007
<b>Success Rate</b>	69.0%	68.8%	68.9%	69.0%	71.3%
<b>Retention Rate</b>	91.6%	91.5%	92.5%	91.6%	95.8%

**Table 5**

**Success & Retention at Citrus College  
Fall 2003 – Fall 2007**

	Fall 2003	Fall 2004	Fall 2005	Fall 2006	Fall 2007
<b>Success Rate</b>	64.9%	64%	65.8%	65.3%	66.5%
<b>Retention Rate</b>	89.2%	89.4%	90.6%	90.7%	90.8%

Table 6 gives the display of success rates by department from Fall 2003 to Fall 2007. Cosmetology department has the highest passing rate or students. Roughly 74% of Nursing students pass the course and 73% students in Child Development pass their classes.

**Table 6**

**Success Rate by Department  
Fall 2003 – Fall 2007**

	Fall 2003	Fall 2004	Fall 2005	Fall 2006	Fall 2007
COS	92.7%	90.2%	93.3%	95.0%	96.2%
MTRK	77.5%	91.4%	87.0%	93.8%	93.4%
MUS	93.8%	95.5%	92.2%	86.3%	91.2%
DANC	74.3%	68.8%	75.0%	68.3%	87.7%
PUB	87.5%	69.7%	77.1%	75.7%	86.8%
FOR	68.4%	79.0%	77.1%	75.0%	82.4%
WATR	59.1%	69.9%	70.2%	66.9%	81.9%
DENT	71.2%	69.7%	76.2%	77.1%	80.3%
DRAF	80.0%	74.6%	71.0%	77.6%	77.1%
LIBT	87.0%	79.3%	83.8%	83.7%	76.5%
REC	78.6%	77.1%	69.3%	69.2%	75.5%
HEAL	58.3%	66.1%	66.7%	72.6%	75.4%
NRS	73.8%	75.0%	77.8%	76.3%	73.5%
CHLD	70.0%	70.5%	71.4%	76.6%	73.4%
ENGR	57.7%	69.2%	75.7%	73.5%	71.0%
MOTO			41.4%	50.0%	67.9%
COMM	44.6%	50.4%	60.7%	60.6%	67.7%
ART	66.9%	64.6%	72.0%	71.3%	65.8%
ACCT	59.3%	58.5%	54.5%	58.7%	64.4%
HEAT	69.2%	57.3%	70.8%	73.3%	63.5%
AJ	56.5%	58.4%	65.4%	65.8%	62.1%
ELEC	64.2%	52.5%	66.7%	59.3%	59.6%
AUTO	65.6%	60.2%	52.3%	58.9%	56.1%
CSIS	62.4%	67.1%	64.0%	57.9%	55.6%
THEA	50.0%	45.1%	72.2%	71.9%	51.6%
BUS	52.8%	49.7%	49.2%	44.4%	49.5%

From the enrollment and course offering data, we need to understand whether students are on the right path for their careers. Despite being a bridge for students to 4 year institutions, Citrus College offers a variety of licenses and certificates for students. Table 7 gives an understanding of what are students' educational goals and if we are helping them fulfill these goals.

**Table 7**

**Students Educational Goals  
Fall 2003 – Fall 2007**

	Fall 2003		Fall 2004		Fall 2005		Fall 2006		Fall 2007	
BA degree	2567	52.8%	2925	52.7%	2833	51.3%	2511	50.9%	592	10.9%
Obtain AA degree w/o transfer	228	4.7%	292	5.3%	278	5.0%	259	5.3%	546	10.1%
Vocation Degree/Certificate	1185	24.4%	1314	23.7%	1367	24.8%	1192	24.2%	304	5.6%
Career Preparation/ Advancement/ Maintaining License	332	6.8%	382	6.9%	353	6.4%	307	6.2%	443	8.2%
Educational Development/ Basic Skills		0.0%		0.0%		0.0%		0.0%	124	2.3%
Undecided / Not Reported	548	11.3%	635	11.4%	689	12.5%	661	13.4%	3423	63.0%
Total	4860	100.0%	5548	100.0%	5520	100.0%	4930	100.0%	5432	100.0%

There seems to be an increase in students reporting their educational goal as undecided or not reported. This is partially because of the transitioning to Banner and online applications which did not enforce students to state their academic goals. Nevertheless, there is a large number of students wishing to receive a license or certificate outside of achieving an AA/AS or transferring. From Fall 2003 to Fall 2006 over 50% of students who enrolled in at least one vocational course state their goal as receiving a B/A or AA/AS degree. About 24% students wish to obtain a vocational degree or certificate with about 6-8% students wishing to take courses for career preparation and maintaining their licenses. With that number in mind, we now look at the number of certificates and licenses that we award based on vocational departments.

Table 8 displays the number of vocational licenses and certificates that we offered for the academic years 2002-2003 to 2006-2007. It is interesting to note that within the last few years, there is a slight decreasing trend in awarding licenses and certificates. Especially in Nursing.

### **Certificates and Licenses Awarded 2002-2003 to 2006-2007**

	02-03	03-04	04-05	05-06	06-07
<b>Cosmetology</b>	206	213	218	231	203
<b>Social Sciences, General</b>	242	278	282	249	194
<b>Transfer Studies</b>		21	121	86	106
<b>Biological and Physical Sciences</b>	99	127	104	107	91
<b>Business and Commerce, General</b>	87	130	106	110	70
<b>Unknown</b>			5	1	60
<b>Admin of Justice</b>	49	42	48	40	45
<b>Fine Arts, General</b>	48	52	55	50	40
<b>Nursing, L.V.N.</b>	66	99	81	73	35
<b>Psychiatric/Mental Health Services Technician</b>		7	48	36	28
<b>Diesel Technology</b>	19	23	22	29	24
<b>Dental Assistant</b>		32	15	16	19
<b>Commercial Music</b>	42	49	55	46	13
<b>Forestry</b>	4	3	2		11
<b>Sanitation and Public Health Technology</b>	1	5		9	9
<b>Chld Dev. Life Span, Family</b>			1	6	8
<b>Accounting</b>		1	8	8	7
<b>Physical Education</b>	4	9	9	6	7
<b>Automotive Technology</b>	8	4	9	10	6
<b>Electronics and Electric Technology</b>	9	4	5	15	6
<b>Library Science, General</b>	3	4	10	10	5
<b>Public Administration</b>	2	1	6	12	2
<b>Business Management</b>	1			2	1
<b>Marketing and Distribution</b>					1
<b>Photography</b>	7	7	3	1	1

Overall, it seems that Citrus College is providing the appropriate courses to help students prepare for their future, especially in courses geared toward achieving a license or certificate. However, within recent years there has been a decline in students achieving a certificate or license. This could also be attributed to the high demand market that requires higher degrees than certain certificates and licenses. In any case, Citrus College is active in providing the courses that gear students toward the work force.