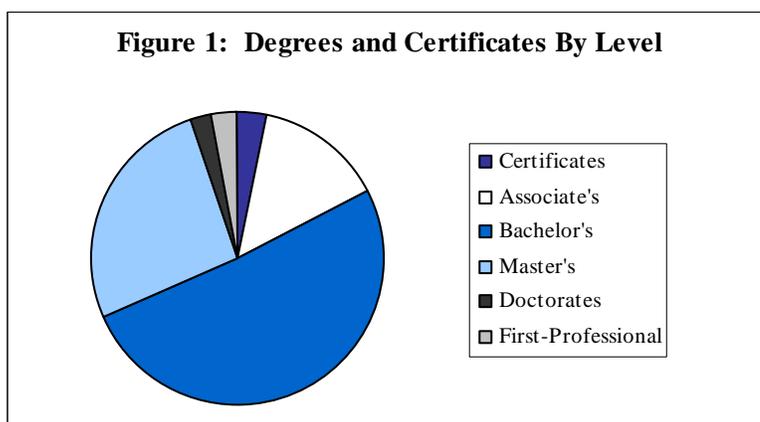




## 2003-04 DEGREES CONFERRED BY CONNECTICUT INSTITUTIONS HIGHLIGHTS

- Connecticut colleges and universities awarded 33,642 degrees and certificates in 2003-04, up 3.5 percent from 2002-03.
- This is the third consecutive year of growth, with significant gains (greater than 2.5%) in each of those years. The cumulative increase since 2000-01 is 13 percent.
- Over the last decade degrees have risen 17 percent, roughly reflecting the increase in full-time equivalent (FTE) enrollment over this period.

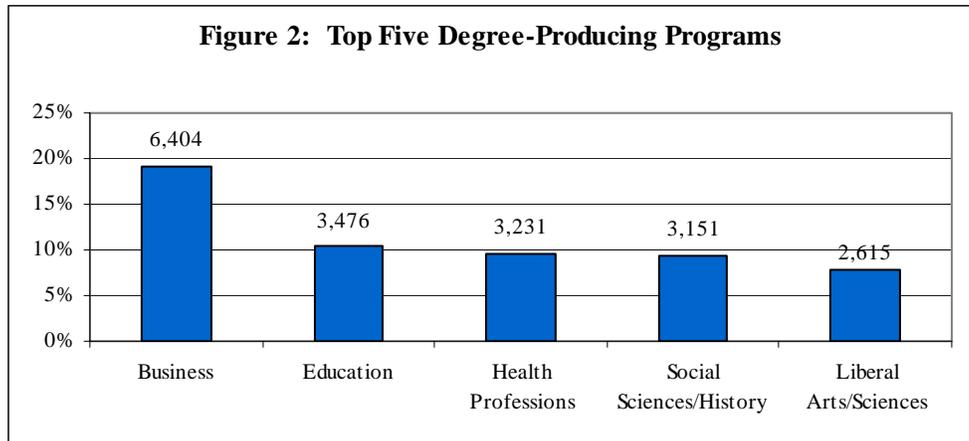
- Baccalaureate degrees are the majority of degrees for the first time since 1992-93. Just over half (51%) of all awards were at this level, followed by master's (27%) and associate's (14%) degrees. (See Figure 1 and Glossary & Usage.)



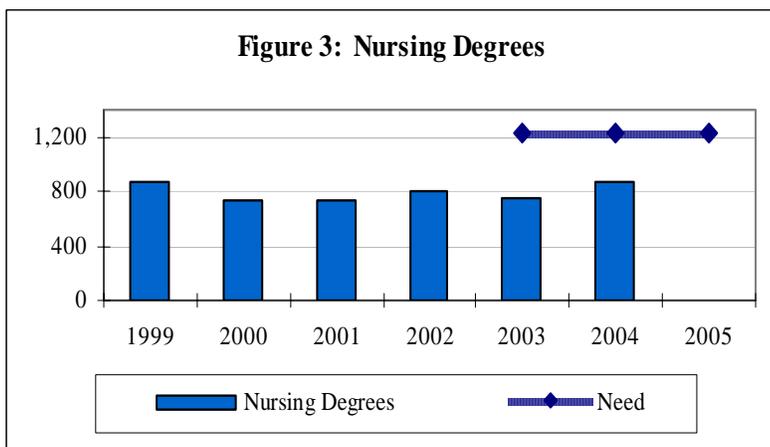
- Both bachelor's (up 6% this year) and doctorates (up 7%) saw hefty growth; certificates, associate's, and master's all experienced moderate growth (2%-3%); and first-professional degrees declined six percent. There were significant decreases in law degrees from both Quinnipiac and Yale.
- The number of minority students earning degrees increased 10.5 percent, or triple the overall percentage increase, with the largest gains among Hispanics/Latinos and African Americans. The share of degrees received by minorities rose from 15.7 percent in 2002-03 to 16.7 percent in 2003-04. In contrast, the minority share of total degrees 21 years ago was just 6.2 percent.
- Women earned 59 percent of all degrees in 2003-04, up from 53 percent two decades ago. Women have a solid majority at every degree level in 2003-04 except for doctorates (women earning 47%) and first-professional degrees (49%), with both levels probably shifting to a majority of women recipients very soon.

- The top five degree-producing disciplines again are business, education, health professions, social sciences and history, and liberal arts and sciences (Figure 2). They comprise 56 percent of all degrees in 2003-04. All but education saw gains this year, with the robust nine percent increase in health professions allowing it to move to third on that list of five.

- Public colleges and universities awarded 16,635 degrees in 2003-04, up 3.3 percent over 2002-03. Independent institutions granted 17,007 degrees, up 3.7 percent over last year. The slightly lower growth in the public sector reduced its share of total awards from 49.5 percent last year to 49.4 percent in 2003-04. Public institutions last awarded a majority of degrees in 1997-98.



- Degrees across the health field rose significantly (up 9%) to 3,231 in 2003-04, after four consecutive years with total health awards being below 3,000.
- Degrees in nursing also increased significantly this year, by a robust 15 percent — from 753 in 2002-03 to 866 in 2003-04. Nursing here is defined narrowly as R.N. training below the doctorate level because there is no clear way to differentiate among other nursing credentials and levels. These awards, however, are still well below projected workforce needs (Figure 3).
- Twenty-eight colleges awarded at least 500 degrees over the last two years, and they represent 94 percent of the total degrees over that time. Among those 28 colleges:



⇒ Four experienced greater than 15 percent increases in 2003-04: Western Connecticut State University (22% increase over 2002-03), Norwalk Community College and Charter Oak State College (both up 20%) and the University of New Haven (up 19%).

⇒ Two encountered greater than 10 percent decreases in 2003-04: Rensselaer at Hartford (down 18% from 2002-03) and Trinity (down 10%).

- Slightly fewer degrees (3,197, down 1% from 2002-03) were awarded in fields important to Connecticut’s industry “clusters” (Figure 4).

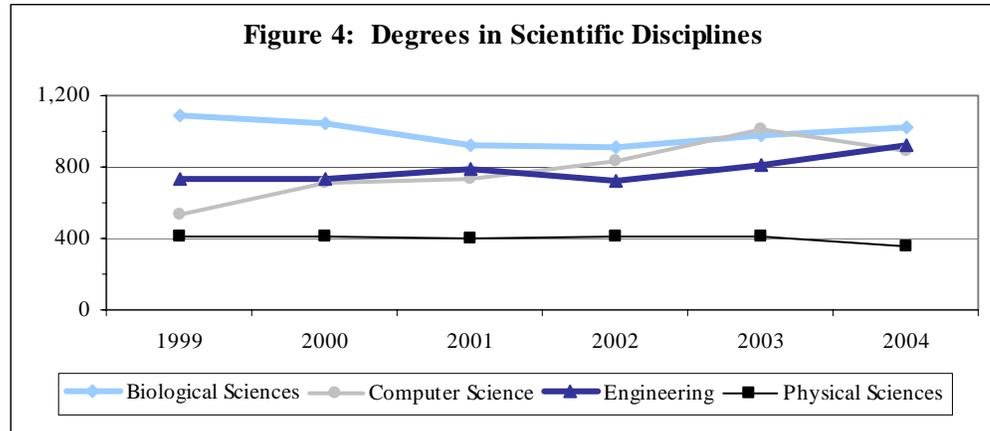
⇒ Engineering degrees rose by 14 percent in 2003-04 continuing a two-year trend.

⇒ Biology degrees increased four percent this year.

⇒ Both Computer Science and

Physical Sciences saw a 12 percent decline. Physical Science awards in 2003-04 were at the lowest in our 20 years of complete data.

⇒ In addition to the 3,197 total awarded in 2003-04 across those four critical fields, another 50 degree recipients had a second major in one of these four fields.



## TEACHER PREPARATION

- As noted in Figure 2, there were 3,476 degrees and certificates in the broad field of education in 2003-04. There also were 3,415 awarded credentials in teacher preparation. (See the Glossary & Usage for distinction between the two.)
- The four largest awarders of teacher preparation credentials (out of a total of 15 producers) were all in the public sector — Southern Connecticut State University (803 awards), Central Connecticut State University (620 awards), University of Connecticut, Storrs (376) and the Alternate Route to Certification (337). These four institutions awarded 63 percent of all teacher preparation credentials in Connecticut.
- Fifth and sixth place in teacher preparation credentials went to two independent institutions — Sacred Heart (326 awards) and University of Bridgeport (297 awards). These two provided another 18 percent. The other nine institutions awarding teacher preparation credentials provided the remaining 19 percent of those awards.

Of the total 3,415 teacher preparation awards:

- ⇒ 32 percent (1,086) were in elementary or early childhood education (down from 35 % last year).
- ⇒ 24 percent (836) were in secondary and middle school academic subjects.
- ⇒ 16 percent (536) were in special subjects, grades K-12 (up from 13 %).
- ⇒ 13 percent (442) were in administration.
- ⇒ 8 percent (278) were in special education.
- ⇒ 7 percent (237) were in all other areas.

- Unfortunately, only 824 (24%) of the teacher preparation awards were in the 10 critical shortage areas identified last year by the State Department of Education (see Table 7). Fifty-nine were from the Alternate Route to Certification.



**2003-04**  
**DEGREES CONFERRED BY CONNECTICUT INSTITUTIONS**  
**REPORT**

**INTRODUCTION**

This report examines the numbers and types of degrees and other awards conferred by Connecticut institutions of higher education in 2003-04, and compares that data with recent trends and statewide needs. These annual figures reflect the number of degrees awarded between July 1, 2003 and June 30, 2004. Disciplines are categorized according to the federal Classification of Instructional Programs.

**OVERVIEW**

Connecticut's colleges and universities awarded a total of 33,642 degrees in 2003-04, an increase of 1,143 (3.5%) over the 2002-03 total of 32,499. A complete list of degrees by institution and level appears in Appendix A.

Six of the state's larger institutions (Central Connecticut State University, Fairfield, Quinnipiac, Sacred Heart, University of New Haven and Western Connecticut State University) had triple-digit gains in degree awards in 2003-04. The University of New Haven led the pack with 217 more degrees than in 2002-03, a 19 percent increase, while the other 40 degree-granting institutions combined were up less than one percent.

Degree production has shown a strong upward trend over the eight years since the nadir of 28,462 in 1995-96 (Table 1). Total degrees increased 18 percent between 1995-96 and 2003-04, with the largest growth in undergraduate certificates (up 32%), bachelor's degrees (23%) and master's degrees (22%).

**TABLE 1**  
**DEGREES AND CERTIFICATES CONFERRED IN CONNECTICUT BY LEVEL**  
**CONNECTICUT COLLEGES AND UNIVERSITIES**

Number	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04
Certificates	676	785	823	824	772	1,098	1,253	1,140	1,046	1,056	1,086
Associate's	5,171	4,816	4,789	4,842	4,500	4,654	4,385	4,391	4,469	4,727	4,807
Bachelor's	14,152	14,186	13,845	13,979	14,133	14,462	14,550	14,213	14,958	16,155	17,057
Master's	7,306	7,125	7,408	7,592	7,742	8,024	7,951	8,367	8,434	8,904	9,051
Doctorates	646	707	676	667	686	629	667	614	599	649	692
First-Professional	844	920	921	955	884	845	951	962	992	1,008	949
<b>Total</b>	<b>28,795</b>	<b>28,539</b>	<b>28,462</b>	<b>28,859</b>	<b>28,717</b>	<b>29,712</b>	<b>29,757</b>	<b>29,687</b>	<b>30,498</b>	<b>32,499</b>	<b>33,642</b>

% of Total	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04
Certificates	2%	3%	3%	3%	3%	4%	4%	4%	3%	3%	3%
Associate's	18%	17%	17%	17%	16%	16%	15%	15%	15%	15%	14%
Bachelor's	49%	50%	49%	48%	49%	49%	49%	48%	49%	50%	51%
Master's	25%	25%	26%	26%	27%	27%	27%	28%	28%	27%	27%
Doctorates	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%
First-Professional	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%
<b>Total</b>	<b>100%</b>										

Bachelor's degrees, last in the majority in 1992-93, were more than half (50.7%) of the total awards this year. Even after narrowing the baccalaureate category to just bachelor's degrees (i.e., excluding post-baccalaureate certificates; see Glossary & Usage), the share was a very slight majority (50.1%).

Associate's, bachelor's, and master's degrees combined accounted for 92 percent of all awards this year, and that share has remained in the low 90s for the last 20 years. What has changed in the last two decades is the relative shares of associate's degrees (22% in 1982-83 to 14% in 2003-04) and master's (22% then to 27% now). Twenty years ago, total master's degrees essentially equaled total associate's degrees (5,906 compared to 4,807); this year master's nearly doubled (88% higher) associate's (9,051 compared to 6,097).

### DEGREES AWARDED BY SECTOR

The public sector (including the U.S. Coast Guard Academy) awarded 49.4 percent of all degrees in 2003-04, down slightly from the 49.5 share of degrees in 2002-03. This dip reflects slightly slower growth in the public sector (3.3% increase over 2002-03) than in the independent sector (3.7% increase over 2002-03). A year with degrees from public colleges growing significantly faster than degrees from independent colleges could push the publics back to majority status for the first time since 1997-98 (Table 2).

**TABLE 2**  
**TOTAL DEGREES AND CERTIFICATES BY SECTOR**  
**CONNECTICUT COLLEGES AND UNIVERSITIES**

	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04
<b>Public Institutions</b>											
Certificates	605	715	751	751	722	681	646	674	716	783	782
Associate's	4,256	4,009	3,915	3,885	3,547	3,700	3,355	3,260	3,349	3,503	3,556
Bachelor's	7,502	7,554	7,201	7,031	6,896	6,881	6,975	6,898	7,153	7,988	8,440
Master's	2,764	2,653	2,773	2,979	2,937	3,034	2,871	3,154	2,843	3,248	3,244
Doctoral	246	265	239	254	253	227	275	234	221	237	257
First-Professional	302	310	312	324	307	296	339	331	379	341	356
<b>Subtotal</b>	<b>15,675</b>	<b>15,506</b>	<b>15,191</b>	<b>15,224</b>	<b>14,662</b>	<b>14,819</b>	<b>14,461</b>	<b>14,551</b>	<b>14,661</b>	<b>16,100</b>	<b>16,635</b>
<b>Independent Institutions</b>											
Certificates	71	70	72	73	50	417	607	466	330	273	304
Associate's	915	807	874	957	953	954	1,030	1,131	1,120	1,224	1,251
Bachelor's	6,650	6,632	6,644	6,948	7,237	7,581	7,575	7,315	7,805	8,167	8,617
Master's	4,542	4,472	4,635	4,613	4,805	4,990	5,080	5,213	5,591	5,656	5,807
Doctoral	400	442	437	413	433	402	392	380	378	412	435
First-Professional	542	610	609	631	577	549	612	631	613	667	593
<b>Subtotal</b>	<b>13,120</b>	<b>13,033</b>	<b>13,271</b>	<b>13,635</b>	<b>14,055</b>	<b>14,893</b>	<b>15,296</b>	<b>15,136</b>	<b>15,837</b>	<b>16,399</b>	<b>17,007</b>
<b>All Institutions</b>											
Certificates	676	785	823	824	772	1,098	1,253	1,140	1,046	1,056	1,086
Associate's	5,171	4,816	4,789	4,842	4,500	4,654	4,385	4,391	4,469	4,727	4,807
Bachelor's	14,152	14,186	13,845	13,979	14,133	14,462	14,550	14,213	14,958	16,155	17,057
Master's	7,306	7,125	7,408	7,592	7,742	8,024	7,951	8,367	8,434	8,904	9,051
Doctoral	646	707	676	667	686	629	667	614	599	649	692
First-Professional	844	920	921	955	884	845	951	962	992	1,008	949
<b>Grand Total</b>	<b>28,795</b>	<b>28,539</b>	<b>28,462</b>	<b>28,859</b>	<b>28,717</b>	<b>29,712</b>	<b>29,757</b>	<b>29,687</b>	<b>30,498</b>	<b>32,499</b>	<b>33,642</b>

## DEGREES AWARDED TO MINORITY STUDENTS

The number of racial/ethnic minority students earning degrees increased 10.5 percent in 2003-04, or about triple the overall 3.5 percent increase in degrees this year, with the largest gains among Hispanics/Latinos (up 15%) and African Americans (13%). The share of degrees received by minorities rose from 15.7 percent in 2002-03 to 16.7 percent in 2003-04. In contrast, 21 years ago, the minority share of total degrees was only 6.2 percent.

The raw number of degrees awarded to minority students has consistently grown over the last two decades, with one small exception when in 2001-02 there was an eight-student decline from 4,621 to 4,613.

**TABLE 3**  
**DEGREES AWARDED BY RACE AND ETHNICITY**  
**CONNECTICUT COLLEGES AND UNIVERSITIES**

	African American	Hispanic/Latino	Asian American	American Indian	Total Minority	White	Non-Resident	Unknown	Total
1993-94	1,292	854	948	64	3,158	23,174	1,511	952	28,795
1994-95	1,351	892	919	71	3,233	22,734	1,545	1,027	28,539
1995-96	1,462	987	1,050	75	3,574	22,404	1,674	810	28,462
1996-97	1,548	1,041	1,078	75	3,742	22,187	1,805	1,125	28,859
1997-98	1,575	1,085	1,110	83	3,853	22,005	1,822	1,037	28,717
1998-99	1,715	1,226	1,260	91	4,292	22,356	1,802	1,262	29,712
1999-00	1,835	1,312	1,217	100	4,464	22,252	1,782	1,260	29,758
2000-01	1,867	1,454	1,184	116	4,621	21,503	1,937	1,626	29,687
2001-02	1,915	1,416	1,188	94	4,613	21,508	2,011	2,366	30,498
2002-03	2,153	1,516	1,313	107	5,089	22,691	2,267	2,452	32,499
2003-04	2,433	1,739	1,342	110	5,624	23,368	2,186	2,464	33,642
<b>One-Year Change</b>	13.0%	14.7%	2.2%	2.8%	10.5%	3.0%	-3.6%	0.5%	3.5%
<b>Change 04/94</b>	88%	104%	42%	72%	78%	1%	45%	159%	17%
<b>Percent of Total</b>	7.2%	5.2%	4.0%	0.3%	16.7%	69.5%	6.5%	7.3%	100.0%
<b>Reference groups</b>									
<b>CT Adult Population, 2000*</b>	7.9%	8.0%	2.4%	0.2%	18.5%	80.1%	n.a.	1.4%	100.0%
<b>Percent of Total Fall 2003 CT</b>	9.3%	7.0%	3.9%	0.4%	20.6%	67.0%	4.1%	8.3%	100.0%

\*Population 18 years and older

Although the rates of growth are healthy, the absolute numbers are less favorable. The bottom of Table 3 contains two reference groups for evaluating these percentages: the Connecticut population age 18 and older in 2000 (from the U.S. Census) and the fall 2003 total in-state collegiate enrollment. Although minority students received 16.7 percent of all degrees in 2003-04, minorities represented 18.5 percent of the Connecticut adult (age 18 and over) population in the 2000 Census. Asian Americans represent a much larger share of the 2003-04 college graduate total than in the 2000 adult population (4.0% of graduates vs. 2.4% of adult population), while African Americans and especially Hispanics are comparatively underrepresented among degree recipients.

More distressing is the comparison of collegiate enrollment (20.6% minorities in Fall 2003) with degrees awarded (16.7% minorities in 2003-04), because degree recipients represent a subset of enrollments. Asian Americans represent a slightly higher share of college degrees than collegiate enrollments (4.0% vs. 3.9%, respectively), while both African American (7.2% of degrees vs. 9.3% of enrollments) and Hispanics (5.2% and 7.0%) are a smaller share at the end of the pipeline than at the beginning. Part of this divergence is attributed to the recent surges in minority enrollment which will not be reflected in the degrees data for several years.

Minority graduates continue to be more concentrated in the lower level degree categories. In 2003-04, certificates and associate's combined represented 29 percent of all degrees earned by minorities, but only 16 percent of all awards to whites. Six years ago in 1997-98, those figures were 23 percent and 19 percent, respectively.

### DEGREES AWARDED TO WOMEN

Women earned 59 percent of all degrees and were a solid majority at every level but doctorates (47% women) and first-professional degrees (49% women), where they came close to majority status (Table 4). The highest share of females was among recipients of undergraduate certificates (68%), followed closely by associate's degrees (66%). Combining those two levels yield nearly two female degree recipients for every one male degree recipient.

**TABLE 4**  
**PROPORTION OF DEGREES CONFERRED TO WOMEN BY LEVEL, SELECTED YEARS**  
**CONNECTICUT COLLEGES AND UNIVERSITIES**

	Certificates	Associate's	Bachelor's	Master's	Doctorate	First-Professional	Total
1982-83	63%	57%	53%	52%	33%	36%	53%
1987-88	71%	63%	54%	55%	36%	45%	55%
1992-93	76%	65%	54%	55%	39%	43%	56%
1997-98	68%	65%	56%	59%	42%	44%	58%
1998-99	70%	63%	56%	59%	41%	45%	58%
1999-00	61%	63%	56%	60%	48%	46%	58%
2000-01	60%	64%	57%	60%	46%	48%	58%
2001-02	59%	66%	58%	59%	43%	47%	59%
2002-03	63%	65%	58%	60%	49%	47%	59%
2003-04	68%	66%	58%	59%	47%	49%	59%

Although the raw numbers of both females and males earning degrees at all levels increased in 2003-04, male degree recipients grew at a slightly higher rate, reducing the female share of total degrees from 59.4 percent in 2002-03 to 59.3 percent.

What is the gender distribution by age in the Connecticut general population? The 2000 Census showed females as a slight majority of those in the age range of 15-59. Males were a slight majority of

50.1 percent in the age range of 15-34, which supplies the overwhelming majority of college students, and females were a slightly larger majority of 51.2 percent among those aged 35-59.

### **DEGREES AWARDED TO NON-RESIDENT ALIENS**

Degrees awarded to non-resident aliens (international students here on a student visa) declined from 2,267 in 2002-03 to 2,186 in 2003-04 (down 4%, also in Table 3) after increasing 236 percent in the two decades before then. This most likely reflects the reduced availability of student visas following the attacks on September 11, 2001.

The decline in non-resident-alien degree production for 2003-04 follows a similar decline in non-resident-alien enrollment of four percent between fall 2002 and fall 2003 and preliminary indications of an even larger decline for fall 2004.

### **TRENDS IN DISCIPLINES**

Throughout the last 18 years, the top five degree-producing disciplines continue to be business (always in first place), education (second for the last five years), health professions (third in 2003-04, up from fourth in 2002-03), social sciences and history (fourth in 2003-04, down from third in 2002-03), and liberal arts and sciences (always in fifth place).

A total of 18,877 students received degrees in those five fields, representing 56 percent of all degrees. The other 37 fields combined provided the remaining 44 percent of degrees. Appendix C provides a complete tally of degrees by discipline and level.

Ten of the 42 fields awarded more degrees in 2003-04 than in any other of our 20 years of complete data. Those 20-year record highs include the field ranks 4<sup>th</sup> through 7<sup>th</sup> in 2003-04 — i.e., social science and history, liberal arts and sciences, psychology, and visual and performing arts. However, the especially important field of physical sciences reached a 20-year low in 2003-04 by awarding just 360 degrees, compared to its high of 505 in 1994-95.

### **DEGREE PRODUCTION IN INDUSTRY CLUSTERS**

The development of human capital is critical to Connecticut's economic prosperity. The state has identified nine industry "clusters" that require special attention and nurturing: aerospace, agriculture, bioscience, insurance/finance, maritime, metal manufacturing, plastics, software/information technology and tourism.

All but tourism are heavily dependent on employees with advanced scientific and technical knowledge. Table 5 shows degree production in four fields relevant to those clusters. There are few exact or unique matches between academic programs and industry workforce needs.

- Engineering is the only clear success in both the short-term (up 14% over the last year) and the medium-term (up 27% over the last five years.) However, the longer-term is less favorable, with the 925 awards for 2003-04 compared to more than 1,000 a year every year between 1982-83 and 1993-94, and a peak of 1,486 in 1984-85.

- Biological sciences saw small growth of four percent this year, but have fallen six percent over the last five years and since the peak year of 1995-96.
- Computer science was down 12 percent in 2003-04 from its 20-year peak reached last year, but still was the second highest year of those 20 years. The 2002-03 peak of 1,009 awards was almost three times above the 340 awards 20 years earlier in 1982-83, but that is only to be expected for a field that has experienced such tremendous technological change during the last two decades.
- Physical science awards also were down 12 percent from last year, with downward trends seen over the short and long-terms. The 360 award total in 2003-04 is the lowest in our 20 years of data.

Across those four fields combined, the 3,197 awards in 2003-04 are less than one percent below 2002-03, but 15 percent above the levels of five years earlier in 1998-99 (Table 5).

**TABLE 5**  
**DEGREES CONFERRED IN SCIENTIFIC DISCIPLINES**  
**CONNECTICUT COLLEGES AND UNIVERSITIES**

	1999	2000	2001	2002	2003	2004	1-Year Change	04/99 Change
Biological Sciences	1,091	1,050	922	910	982	1,022	4%	-6%
Computer Science	534	715	738	832	1,009	890	-12%	67%
Engineering	731	728	784	725	812	925	14%	27%
Physical Sciences	416	409	399	413	411	360	-12%	-13%
<b>Total</b>	<b>2,772</b>	<b>2,902</b>	<b>2,843</b>	<b>2,880</b>	<b>3,214</b>	<b>3,197</b>	<b>-1%</b>	<b>15%</b>

### HEALTH AND NURSING PROFESSIONS

Degrees in health fields (broadly defined) rose significantly (9%) to 3,231 in 2003-04 and are up one percent over the last five years. Current degree production greatly exceeds the late 1980s when these awards slipped below 2,000 awards a year. This year's awards, however, are below the peak year of 3,336 in 1996-97 and barely above the halcyon years of 1994-95 to 1998-99 when the totals exceeded 3,000 every year and averaged 3,154 a year (Table 6).

**TABLE 6**  
**DEGREES CONFERRED IN HEALTH PROFESSIONS**  
**CONNECTICUT COLLEGES AND UNIVERSITIES**

	1999	2000	2001	2002	2003	2004	1-Year Change	04/99 Change
All Health Professions	3,209	2,889	2,916	2,989	2,974	3,231	9%	1%
Nursing Degrees*	874	741	732	795	753	866	15%	-1%

\*Nursing degrees are included within the Health Professions total and include RN training only.

Degrees in nursing also rose this year and by a more robust 15 percent — from 753 in 2002-03 to 866 in 2003-04. Nursing here is narrowly defined as RN training below the doctorate level because there is no easy way to differentiate other nursing credentials and levels.

During the last five years, nursing awards have fallen one percent. In the late 1990s, annual production of nurses averaged 939; in the last four years it averaged 787, well below the projected annual openings of 1,235. Registered nurses, according to Connecticut Department of Labor, make up the fastest growing occupation in annual openings, and the only one of the top three occupations (the other two are retail salespersons and customer service representatives) with a significant prerequisite in higher education.

## TEACHER PREPARATION

A total of 3,415 students received credentials that could lead to state teacher certification (Table 7). (See Glossary & Usage for the distinction between these credentials and the more general awards in the education field.) This is down (6%) from the 2002-03 total of 3,651 and the first decline in our four years of reliable data. The 3,415 credentials in 2003-04 are just below the 3,416 credentials in 2001-02.

Fifteen Connecticut institutions offer teacher preparation credentials. The four largest are in the public sector (Southern Connecticut State University, Central Connecticut State University, University of Connecticut, Storrs and Alternate Route to Certification, in descending order of awards) and graduated 63 percent of all awards in 2003-04. Fifth and sixth place are held by two independent institutions (Sacred Heart and University of Bridgeport), which combined produced another 18 percent of credentials. The other nine institutions combined generated the remaining 19 percent.

The teacher preparation credentials by broad field were:

Elementary and Early Childhood Education	1,086 (32%)
Secondary and Middle School Academic Subjects	836 (24%)
Special Subjects, Grades K-12	536 (16%)
Administration	442 (13%)
Special Education	278 (8%)
All Other Areas	237 (7%)

Within the 836 awards in academic subjects (secondary and middle school), by far the most popular disciplines were English (194 awards) and history/social studies (192). The next two disciplines with the most awards were in the sciences — mathematics (157) and biology (87). Awards across all math/science fields totaled 331, or 41 percent of awards with a listed subject. With the 536 awards in special subjects (K-12) added, three more subjects came in at over 90 awards — physical education (111), music (99) and art (93).

Unfortunately, only 824 out of the total 3,415 awards (24%) were in the 10 teacher shortage areas identified during 2003-04 by the Connecticut Department of Education. The most popular shortage areas were special education (278 awards) and mathematics 7-12 (132 awards). [Note: 25 of the 157 mathematics awards cited in the previous paragraph were at the middle school level — grades 4-8 — and thus do not count as being in a shortage area.]

**TABLE 7**  
**TEACHER PREPARATION CREDENTIALS IN IDENTIFIED**  
**TEACHER SHORTAGE AREAS**  
**CONNECTICUT COLLEGES AND UNIVERSITIES\***

Shortage Areas	Number of Recipients
Comprehensive Special Education, Pre-K-12	278
Mathematics, 7-12	132
Music, Pre-K-12	97
School Psychologist	92
Remedial Reading & Language Arts	74
Speech and Language Pathology	51
Spanish, 7-12	43
Technology Education	38
Consumer and Home Economics, K-12	11
Bilingual Education, K-12	8
Total in 10 Shortage Areas	824
Total in All Areas	3,415
Percent in Shortage Areas	24%

\*And Alternate Route to Certification (ARC)

## INSTITUTIONAL PERFORMANCE

Appendix A lists totals by institutions and level for 2003-04. Comparing 2003-04 with 2002-03, and based only on the 28 colleges that awarded at least 500 degrees over the last two years (those colleges represent 94% of the statewide total), the five largest annual percentage increases and declines are:

Western Connecticut State University	+22%	Naugatuck Valley Community College	-7%
Norwalk Community College	+20%	Tunxis Community College	-7%
Charter Oak State College	+20%	Connecticut College	-8%
University of New Haven	+19%	Trinity College	-10%
Gibbs College	+12%	Rensselaer at Hartford	-12%

Replicating that exercise over a five-year period (1998-99 to 2003-04), and using the same filtering criteria, yields these five largest increases and decreases:

Albertus Magnus College	+111%	Capital Community College	-13%
University of Bridgeport	+45%	Gibbs College	-20%
Housatonic Community College	+44%	Rensselaer at Hartford	-20%
Charter Oak State College	+43%	Three Rivers Community College	-24%
Quinnipiac College	+39%	Manchester Community College	-28%

## SUMMARY

The 33,642 degrees awarded by Connecticut colleges and universities in 2003-04 represent a 3.5 percent increase over 2002-03. This is the third straight year of increase, with a 13 percent cumulative increase since 2000-01. Total degrees awarded in 2003-04 were 17 percent higher than they were a decade earlier.

Bachelor's degrees were a majority (51%) of all awards for the first time since 1992-93. The public sector awarded 49.4 percent of all degrees during 2003-04, which is its second straight year of being very close to regaining the majority last held in 1997-98.

Degrees earned by racial/ethnic minority students rose by 10.5 percent in 2003-04, or three times the overall growth rate. Minorities received 16.7 percent of degrees in 2003-04, which is still short of their 18.5 percent of the Connecticut adult population in the 2000 Census and 20.6 percent share of fall 2003 enrollments. The under-representation of minority students among degree recipients (as compared to their share among total collegiate enrollment) is much greater for African Americans and Hispanics/Latinos than for Asian Americans, who have about the same share of both total degrees and total enrollment.

For the third consecutive year, women received 59 percent of all degrees. Women this year earned 67 percent of awards at the associate's and undergraduate certificate level, but were still just short of a majority at both the doctorate and first-professional levels.

The five disciplines awarding the most degrees again were business, education, health professions, social sciences and history and liberal arts and sciences. Those five fields represent 56 percent of all degrees in 2003-04.

Total degrees awarded in four scientific fields important to Connecticut's priority cluster areas fell by less than one percent in 2003-04. Engineering degrees rose 14 percent and biological sciences increased 4 percent, but both computer science and physical sciences decreased 12 percent.

Degrees data in the health field (another key segment of the state's economy) are more positive, with a nine percent overall increase in 2003-04. Nursing degrees were up 15 percent, and all other health awards were up six percent.

Teacher preparation data was less positive, especially with the expected surge in retirements of teachers in the next decade. Total awards fell by six percent in 2003-04, which was the first decline in four years of reliable data. Although the share of teacher preparation credentials in the shortage/priority areas increased (from 19% in 2002-03 to 24% in 2003-04), the total awards across the 10 priority areas was only 76 percent of the awards in elementary and early childhood education alone.

## GLOSSARY & USAGE

### A. USAGE

All references to “degrees” are meant to apply to degrees, certificates and other formal awards from a college or university.

### B. DEGREE LEVELS

The tables that show degrees by level involve this collapsing:

- The “bachelor’s” category includes both bachelor’s degrees and post-baccalaureate certificates short of a master’s degree. Thus, the 17,057 “bachelor’s” listed in the tables for 2003-04 comprise 16,857 bachelor’s degrees and 200 post-baccalaureate certificates.
- The “master’s” category includes both master’s degrees and post-master’s certificates — e.g., Sixth-Year Certificates (SYC), Yale’s M.Phil. degrees and many Certificates of Advanced Study (CAS). The 9,051 “master’s” listed in the tables for 2003-04 comprise 8,402 master’s degrees and 649 post-master’s certificates.

### C FIRST-PROFESSIONAL DEGREES

These are either doctorate degrees in medical fields (broadly defined to include dentists, osteopaths, pharmacy, etc.) or degrees required for becoming a lawyer or being ordained.

### D. TEACHER PREPARATION CREDENTIALS

The teacher preparation data has surprisingly little overlap with the degrees data in Education. Information on teacher preparation is collected separately from the 15 institutions authorized to issue teacher preparation credentials — 14 colleges and the DHE’s Alternate Route to Certification (ARC) program.

Many teacher preparation credentials do not appear in the degree data. Connecticut generally requires that teachers of academic subjects have a degree in that field rather than in education. An aspiring new biology teacher thus would have a bachelor’s degree in biology and an additional teacher preparation credential that eventually allows the state to certify him or her as a biology teacher.

Conversely, many degrees in education do not show up in the teacher preparation data because they are not preparing teachers. Examples include teacher assistants/aides, degrees in the higher education field within education and many programs for school administrators who must already be certified teachers to enroll in the program.

Finally, many of those receiving teacher preparation credentials may already be certified teachers.

Appendix A  
**Degrees and Certificates Granted by Colleges and Universities in  
Connecticut**  
2003-04

Public Institutions	Certificates Less Than One Year	Certificates One Year or More	Associate's	Bachelor's	Master's	Doctoral	First Professional	Total
University of Connecticut								
Storrs	0	0	11	3,696	1,169	257	253	5,386
UConn Health Center	0	0	0	0	0	0	103	103
Connecticut State University								
Central	2	0	0	1,478	687	0	0	2,167
Eastern	0	0	16	812	105	0	0	933
Southern	0	0	4	1,197	1,029	0	0	2,230
Western	0	0	11	610	254	0	0	875
Community Technical Colleges								
Asnuntuck	50	0	157	0	0	0	0	207
Capital	32	0	225	0	0	0	0	257
Gateway	117	3	393	0	0	0	0	513
Housatonic	63	0	350	0	0	0	0	413
Manchester	86	0	444	0	0	0	0	530
Middlesex	23	0	190	0	0	0	0	213
Naugatuck	69	0	434	0	0	0	0	503
Northwestern	55	0	106	0	0	0	0	161
Norwalk	93	0	429	0	0	0	0	522
Quinebaug Valley	50	1	123	0	0	0	0	174
Three Rivers	50	1	346	0	0	0	0	397
Tunxis	68	18	247	0	0	0	0	333
Charter Oak State College								
Charter Oak State College	1	0	70	437	0	0	0	508
<b>Total, State Institutions</b>	<b>759</b>	<b>23</b>	<b>3,556</b>	<b>8,230</b>	<b>3,244</b>	<b>257</b>	<b>356</b>	<b>16,425</b>
United States Coast Guard								
U.S. Coast Guard Academy	0	0	0	210	0	0	0	210
<b>Total, Public Institutions</b>	<b>759</b>	<b>23</b>	<b>3,556</b>	<b>8,440</b>	<b>3,244</b>	<b>257</b>	<b>356</b>	<b>16,635</b>
<b>Total, Public Institutions</b>	<b>759</b>	<b>23</b>	<b>3,556</b>	<b>8,440</b>	<b>3,244</b>	<b>257</b>	<b>356</b>	<b>16,635</b>

Appendix A  
**Degrees and Certificates Granted by Colleges and Universities in  
Connecticut  
2003-04**

Independent Institutions	Certificates Less Than One Year	Certificates One Year or More	Associate's	Bachelor's	Master's	Doctoral	First Professional	Total
<b>National Independent</b>								
Connecticut College	0	0	0	453	0	0	0	453
Trinity College	0	0	0	492	36	0	0	528
Wesleyan University	0	0	0	722	117	13	0	852
Yale University	0	0	0	1,339	1,610	332	367	3,648
<b>Regional Independent</b>								
Albertus Magnus College	6	0	173	382	233	0	0	794
Fairfield University	0	0	13	996	313	0	0	1,322
Hartford Seminary	0	0	0	12	21	12	0	45
Holy Apostles College and Semina	0	0	0	14	30	0	7	51
LymeAcademy College of Fine Art	0	0	0	16	0	0	0	16
Mitchell College	0	0	77	64	0	0	0	141
Paier College of Art	3	1	7	38	0	0	0	49
Quinnipiac University	0	0	6	1,224	399	0	176	1,805
Rensselaer at Hartford	0	0	0	0	423	0	0	423
Sacred Heart University	0	0	48	817	635	0	0	1,500
St. Basil College	0	0	0	3	0	0	0	3
St. Joseph College	0	0	0	212	156	0	0	368
Teikyo Post University	0	0	60	229	0	0	0	289
University of Bridgeport	0	0	31	182	681	28	43	965
University of Hartford	21	0	184	912	417	49	0	1,583
University of New Haven	41	0	57	510	736	1	0	1,345
<b>Two-Year Independent</b>								
Briarwood College	2	7	90	0	0	0	0	99
Gibbs College	36	19	282	0	0	0	0	337
Goodwin College	143	21	77	0	0	0	0	241
International College of Hospitality	0	4	70	0	0	0	0	74
St. Vincent's College	0	0	76	0	0	0	0	76
<b>Total, Independent Institutions</b>	252	52	1,251	8,617	5,807	435	593	17,007
<b>Total, All Institutions</b>	1,011	75	4,807	17,057	9,051	692	949	33,642

Appendix B  
**Degrees and Certificates by Level and Race/Ethnicity**  
**Connecticut Colleges and Universities**  
2003-04

	<b>Black Non-Hispanic</b>	<b>Hispanic</b>	<b>Asian or Pacific Islander</b>	<b>American Indian or Alaskan Native</b>	<b>White Non-Hispanic</b>	<b>Non-Resident Alien</b>	<b>Other</b>	<b>Total</b>
<b><u>Certificate &lt; 1 Year</u></b>								
Agricultural Business and Production	0	0	0	0	0	0	0	0
Agricultural Sciences	0	0	0	0	3	0	2	5
Architecture and Related Programs	0	1	0	0	1	0	0	2
Area, Ethnic, and Cultural Studies	0	0	0	0	0	0	0	0
Biological Sciences/Life Sciences	0	0	0	0	0	0	0	0
Business Management and Administrative Services	27	21	18	1	150	5	7	229
Communications	1	1	0	0	2	0	0	4
Communications Technologies	0	1	0	0	3	0	1	5
Computer and Information Sciences	11	4	1	0	30	2	2	50
Conservation and Renewable Natural Resources	0	0	0	0	0	0	0	0
Construction Trades	1	1	0	0	4	0	0	6
Education	0	0	0	0	0	1	0	1
Engineering-Related Technologies	10	8	9	0	84	3	9	123
English Language and Literature/Letters	0	0	0	0	0	0	0	0
Health Professions and Related Sciences	66	47	3	0	143	1	13	273
Home Economics, General	0	0	0	0	1	0	0	1
Law and Legal Studies	3	3	1	1	34	0	7	49
Liberal Arts and Sciences, Gen Studies and Humanities	0	0	0	0	5	1	1	7
Library Science	1	0	0	0	9	0	1	11
Marketing Operations/Marketing and Distribution	0	0	0	0	3	0	0	3
Mechanics and Repairers	2	2	1	0	3	0	2	10
Multi/Interdisciplinary Studies	2	1	0	0	4	0	0	7
Parks, Recreation, Leisure, and Fitness Studies	1	0	0	0	7	0	0	8
Personal and Miscellaneous Services	2	0	0	0	8	0	0	10
Physical Sciences	0	0	0	0	0	0	0	0
Precision Production Trades	0	0	1	0	8	0	2	11
Protective Services	13	10	0	0	39	0	3	65
Public Administration and Services	0	0	0	0	2	0	0	2
Social Sciences and History	0	0	0	0	2	0	0	2
Visual and Performing Arts	0	1	0	0	33	0	0	34
Vocational Home Economics	24	9	1	2	52	0	5	93
<b>Total Certificate &lt; 1 Year Degrees</b>	<b>164</b>	<b>110</b>	<b>35</b>	<b>4</b>	<b>630</b>	<b>13</b>	<b>55</b>	<b>1,011</b>
<b><u>Certificate &gt; 1 Year</u></b>								
Biological Sciences/Life Sciences	0	0	0	0	0	0	0	0
Business Management and Administrative Services	2	2	4	0	6	4	2	20
Computer and Information Sciences	0	1	0	0	1	0	0	2
Engineering	0	0	0	0	0	0	0	0
Engineering-Related Technologies	0	0	0	0	3	0	0	3
Health Professions and Related Sciences	3	4	1	0	22	0	0	30
Precision Production Trades	0	0	0	0	0	0	0	0
Visual and Performing Arts	4	2	0	0	14	0	0	20
Vocational Home Economics	0	0	0	0	0	0	0	0
<b>Total Certificate &gt; 1 Year Degrees</b>	<b>9</b>	<b>9</b>	<b>5</b>	<b>0</b>	<b>46</b>	<b>4</b>	<b>2</b>	<b>75</b>

Appendix B  
**Degrees and Certificates by Level and Race/Ethnicity**  
**Connecticut Colleges and Universities**  
2003-04

	<b>Black Non-Hispanic</b>	<b>Hispanic</b>	<b>Asian or Pacific Islander</b>	<b>American Indian or Alaskan Native</b>	<b>White Non-Hispanic</b>	<b>Non-Resident Alien</b>	<b>Other</b>	<b>Total</b>
<b><u>Associate</u></b>								
Agricultural Business and Production	0	0	0	0	11	0	0	11
Agricultural Sciences	0	0	0	0	8	0	0	8
Architecture and Related Programs	0	0	0	0	0	1	0	1
Biological Sciences/Life Sciences	0	0	0	0	3	0	1	4
Business Management and Administrative Services	183	136	40	8	650	106	42	1,165
Communications	3	1	1	0	19	2	1	27
Communications Technologies	0	0	0	0	18	0	0	18
Computer and Information Sciences	40	26	4	1	76	5	7	159
Conservation and Renewable Natural Resources	0	0	0	0	0	0	0	0
Education	0	0	0	0	3	0	1	4
Engineering	3	5	4	0	9	2	1	24
Engineering-Related Technologies	17	21	7	0	175	12	19	251
Health Professions and Related Sciences	122	56	19	1	520	8	29	755
Law and Legal Studies	7	6	1	0	35	3	5	57
Liberal Arts and Sciences, Gen Studies and Humanities	188	126	39	8	1,060	40	94	1,555
Marketing Operations/Marketing and Distribution	4	2	0	0	25	2	2	35
Mathematics	0	1	0	0	0	0	0	1
Mechanics and Repairers	0	3	0	0	4	0	0	7
Parks, Recreation, Leisure, and Fitness Studies	1	0	0	0	17	0	7	25
Personal and Miscellaneous Services	3	2	0	0	9	0	0	14
Precision Production Trades	0	0	2	0	13	0	0	15
Protective Services	22	14	1	0	139	1	2	179
Psychology	0	0	0	0	2	0	0	2
Public Administration and Services	10	11	0	2	10	0	1	34
Science Technologies	1	0	0	0	9	0	1	11
Social Sciences and History	0	1	0	0	5	0	0	6
Theological Studies and Religious Vocations	0	0	0	0	0	0	0	0
Transportation and Materials Moving Workers	0	0	0	0	5	0	0	5
Visual and Performing Arts	23	32	10	0	167	7	8	247
Vocational Home Economics	25	26	2	1	119	4	10	187
<b>Total Associate Degrees</b>	<b>652</b>	<b>469</b>	<b>130</b>	<b>21</b>	<b>3,111</b>	<b>193</b>	<b>231</b>	<b>4,807</b>

Appendix B  
**Degrees and Certificates by Level and Race/Ethnicity**  
**Connecticut Colleges and Universities**  
2003-04

	<b>Black Non-Hispanic</b>	<b>Hispanic</b>	<b>Asian or Pacific Islander</b>	<b>American Indian or Alaskan Native</b>	<b>White Non-Hispanic</b>	<b>Non-Resident Alien</b>	<b>Other</b>	<b>Total</b>
<b><u>Bachelor's</u></b>								
Agricultural Business and Production	0	0	1	0	36	0	2	39
Agricultural Sciences	0	4	0	0	57	0	3	64
Architecture and Related Programs	2	4	4	0	42	4	5	61
Area, Ethnic, and Cultural Studies	38	23	19	1	154	6	23	264
Biological Sciences/Life Sciences	56	39	72	0	478	25	49	719
Business Management and Administrative Services	234	131	132	10	2,181	97	129	2,914
Communications	47	46	12	0	813	9	48	975
Computer and Information Sciences	22	16	33	0	222	43	18	354
Conservation and Renewable Natural Resources	4	2	3	0	40	0	6	55
Construction Trades	0	0	0	0	11	0	1	12
Education	17	21	7	3	569	2	24	643
Engineering	21	24	52	1	313	38	38	487
Engineering-Related Technologies	8	3	6	2	115	3	9	146
English Language and Literature/Letters	30	24	22	3	746	9	84	918
Foreign Languages and Literatures	6	37	3	1	138	4	13	202
Health Professions and Related Sciences	57	48	40	0	712	4	53	914
Home Economics, General	11	23	5	1	251	1	14	306
Law and Legal Studies	7	1	1	0	48	0	1	58
Liberal Arts and Sciences, Gen Studies and Humanities	76	54	23	15	693	8	90	959
Library Science	0	0	0	0	7	0	2	9
Marketing Operations/Marketing and Distribution	4	10	1	0	158	6	6	185
Mathematics	7	2	9	0	172	9	13	212
Mechanics and Repairers	0	0	0	0	1	0	0	1
Multi/Interdisciplinary Studies	25	14	22	1	186	21	33	302
Parks, Recreation, Leisure, and Fitness Studies	7	1	1	0	116	2	4	131
Personal and Miscellaneous Services	0	0	0	0	0	0	0	0
Philosophy and Religion	7	1	9	2	96	9	11	135
Physical Sciences	4	7	4	0	156	15	17	203
Protective Services	27	25	0	4	274	4	7	341
Psychology	90	75	40	7	1,174	22	70	1,478
Public Administration and Services	34	11	5	0	113	1	14	178
Science Technologies	0	1	0	0	3	0	0	4
Social Sciences and History	212	133	155	9	1,974	107	204	2,794
Theological Studies and Religious Vocations	0	0	0	0	7	2	0	9
Transportation and Materials Moving Workers	0	0	0	0	2	0	0	2
Visual and Performing Arts	47	27	38	2	766	34	69	983
<b>Total Bachelor's Degrees</b>	<b>1,100</b>	<b>807</b>	<b>719</b>	<b>62</b>	<b>12,824</b>	<b>485</b>	<b>1,060</b>	<b>17,057</b>

Appendix B  
**Degrees and Certificates by Level and Race/Ethnicity**  
**Connecticut Colleges and Universities**  
2003-04

	<b>Black Non-Hispanic</b>	<b>Hispanic</b>	<b>Asian or Pacific Islander</b>	<b>American Indian or Alaskan Native</b>	<b>White Non-Hispanic</b>	<b>Non-Resident Alien</b>	<b>Other</b>	<b>Total</b>
<b><u>Master's</u></b>								
Agricultural Business and Production	0	0	0	0	0	4	0	4
Agricultural Sciences	0	0	0	0	5	8	0	13
Architecture and Related Programs	1	2	6	0	45	18	3	75
Area, Ethnic, and Cultural Studies	9	3	0	0	36	6	10	64
Biological Sciences/Life Sciences	4	4	18	0	105	36	27	194
Business Management and Administrative Services	112	70	126	3	1,114	373	260	2,058
Communications	3	0	1	1	22	7	9	43
Computer and Information Sciences	3	5	41	1	91	153	26	320
Conservation and Renewable Natural Resources	1	2	3	1	60	36	7	110
Education	141	68	26	3	2,226	49	242	2,755
Engineering	8	12	12	0	106	183	38	359
Engineering-Related Technologies	2	1	0	0	18	5	3	29
English Language and Literature/Letters	0	1	2	2	61	1	14	81
Foreign Languages and Literatures	0	5	3	0	48	26	21	103
Health Professions and Related Sciences	31	31	52	2	590	43	104	853
Home Economics, General	1	2	6	0	107	11	7	134
Law and Legal Studies	1	1	5	0	7	25	0	39
Liberal Arts and Sciences, Gen Studies and Humanities	4	0	1	0	84	0	2	91
Library Science	2	2	2	0	106	2	21	135
Mathematics	0	0	3	0	30	40	14	87
Multi/Interdisciplinary Studies	0	1	0	0	5	2	1	9
Parks, Recreation, Leisure, and Fitness Studies	1	1	0	0	10	1	3	16
Philosophy and Religion	5	1	4	0	30	4	7	51
Physical Sciences	1	1	2	0	47	29	14	94
Protective Services	7	3	7	0	91	2	15	125
Psychology	13	8	6	1	132	34	32	226
Public Administration and Services	46	27	2	1	146	22	20	264
Social Sciences and History	11	10	8	2	150	59	38	278
Theological Studies and Religious Vocations	7	8	4	0	63	13	19	114
Visual and Performing Arts	7	6	19	3	193	62	37	327
<b>Total Master's Degrees</b>	<b>421</b>	<b>275</b>	<b>359</b>	<b>20</b>	<b>5,728</b>	<b>1,254</b>	<b>994</b>	<b>9,051</b>

Appendix B  
**Degrees and Certificates by Level and Race/Ethnicity**  
**Connecticut Colleges and Universities**  
2003-04

	<b>Black Non-Hispanic</b>	<b>Hispanic</b>	<b>Asian or Pacific Islander</b>	<b>American Indian or Alaskan Native</b>	<b>White Non-Hispanic</b>	<b>Non-Resident Alien</b>	<b>Other</b>	<b>Total</b>
<b><u>Doctoral</u></b>								
Agricultural Business and Production	0	0	0	0	0	1	1	2
Agricultural Sciences	0	0	0	0	3	1	1	5
Area, Ethnic, and Cultural Studies	3	1	0	0	4	1	0	9
Biological Sciences/Life Sciences	2	4	6	0	51	23	19	105
Business Management and Administrative Services	0	0	0	0	6	11	1	18
Computer and Information Sciences	0	0	0	0	1	4	0	5
Conservation and Renewable Natural Resources	0	1	0	0	6	2	2	11
Education	2	2	0	0	48	6	15	73
Engineering	0	0	1	0	12	36	6	55
English Language and Literature/Letters	0	0	0	0	16	4	2	22
Foreign Languages and Literatures	0	2	0	0	12	13	2	29
Health Professions and Related Sciences	2	4	4	0	37	19	5	71
Home Economics, General	0	0	0	0	0	2	0	2
Law and Legal Studies	0	0	0	0	1	6	0	7
Liberal Arts and Sciences, Gen Studies and Humanities	0	0	0	0	3	0	0	3
Mathematics	0	0	1	0	3	16	1	21
Multi/Interdisciplinary Studies	0	0	0	0	2	0	1	3
Philosophy and Religion	0	0	0	0	8	0	5	13
Physical Sciences	0	1	2	0	25	27	8	63
Psychology	2	2	3	0	43	8	8	66
Public Administration and Services	0	0	0	0	0	0	0	0
Social Sciences and History	4	3	1	0	31	25	7	71
Theological Studies and Religious Vocations	2	0	0	0	9	1	0	12
Visual and Performing Arts	3	0	1	0	11	8	3	26
<b>Total Doctoral Degrees</b>	<b>20</b>	<b>20</b>	<b>19</b>	<b>0</b>	<b>332</b>	<b>214</b>	<b>87</b>	<b>692</b>
<b><u>First-Professional</u></b>								
Health Professions and Related Sciences	28	20	44	1	208	10	24	335
Law and Legal Studies	32	28	27	2	432	8	4	533
Theological Studies and Religious Vocations	7	1	4	0	57	5	7	81
<b>Total First-Professional Degrees</b>	<b>67</b>	<b>49</b>	<b>75</b>	<b>3</b>	<b>697</b>	<b>23</b>	<b>35</b>	<b>949</b>

Appendix C  
**Degrees and Certificates by Level, Discipline and Gender of Recipient**  
**Connecticut Colleges and Universities**  
2003-04

<b>Discipline</b>	<b>Men</b>	<b>Women</b>	<b>Total</b>
<b><u>Certificate &lt; 1 Year</u></b>			
Agricultural Business and Production	0	0	0
Agricultural Sciences	2	3	5
Architecture and Related Programs	0	2	2
Area, Ethnic, and Cultural Studies	0	0	0
Biological Sciences/Life Sciences	0	0	0
Business Management and Administrative Services	53	176	229
Communications	2	2	4
Communications Technologies	2	3	5
Computer and Information Sciences	37	13	50
Conservation and Renewable Natural Resources	0	0	0
Construction Trades	6	0	6
Education	0	1	1
Engineering-Related Technologies	102	21	123
English Language and Literature/Letters	0	0	0
Health Professions and Related Sciences	36	237	273
Home Economics, General	1	0	1
Law and Legal Studies	3	46	49
Liberal Arts and Sciences, Gen Studies and Humanities	0	7	7
Library Science	1	10	11
Marketing Operations/Marketing and Distribution	0	3	3
Mechanics and Repairers	10	0	10
Multi/Interdisciplinary Studies	0	7	7
Parks, Recreation, Leisure, and Fitness Studies	1	7	8
Personal and Miscellaneous Services	2	8	10
Physical Sciences	0	0	0
Precision Production Trades	10	1	11
Protective Services	32	33	65
Public Administration and Services	0	2	2
Social Sciences and History	1	1	2
Visual and Performing Arts	16	18	34
Vocational Home Economics	10	83	93
<b>Total Certificate &lt; 1 Year Degrees</b>	<b>327</b>	<b>684</b>	<b>1,011</b>
<b><u>Certificate &gt; 1 Year</u></b>			
Biological Sciences/Life Sciences	0	0	0
Business Management and Administrative Services	2	18	20
Computer and Information Sciences	2	0	2
Engineering	0	0	0
Engineering-Related Technologies	3	0	3
Health Professions and Related Sciences	4	26	30
Precision Production Trades	0	0	0
Visual and Performing Arts	8	12	20
Vocational Home Economics	0	0	0
<b>Total Certificate &gt; 1 Year Degrees</b>	<b>19</b>	<b>56</b>	<b>75</b>

Appendix C (Continued)  
**Degrees and Certificates by Level, Discipline and Gender of Recipient**  
**Connecticut Colleges and Universities**  
2003-04

<b>Discipline</b>	<b>Men</b>	<b>Women</b>	<b>Total</b>
<b><u>Associate</u></b>			
Agricultural Business and Production	3	8	11
Agricultural Sciences	2	6	8
Architecture and Related Programs	0	1	1
Biological Sciences/Life Sciences	2	2	4
Business Management and Administrative Services	352	813	1,165
Communications	17	10	27
Communications Technologies	8	10	18
Computer and Information Sciences	116	43	159
Conservation and Renewable Natural Resources	0	0	0
Education	0	4	4
Engineering	23	1	24
Engineering-Related Technologies	201	50	251
Health Professions and Related Sciences	92	663	755
Law and Legal Studies	3	54	57
Liberal Arts and Sciences, Gen Studies and Humanities	499	1,056	1,555
Marketing Operations/Marketing and Distribution	10	25	35
Mathematics	0	1	1
Mechanics and Repairers	7	0	7
Parks, Recreation, Leisure, and Fitness Studies	13	12	25
Personal and Miscellaneous Services	9	5	14
Precision Production Trades	9	6	15
Protective Services	104	75	179
Psychology	1	1	2
Public Administration and Services	5	29	34
Science Technologies	9	2	11
Social Sciences and History	0	6	6
Theological Studies and Religious Vocations	0	0	0
Transportation and Materials Moving Workers	5	0	5
Visual and Performing Arts	107	140	247
Vocational Home Economics	22	165	187
<b>Total Associate Degrees</b>	<b>1,619</b>	<b>3,188</b>	<b>4,807</b>

Appendix C (Continued)  
**Degrees and Certificates by Level, Discipline and Gender of Recipient**  
**Connecticut Colleges and Universities**  
2003-04

<b>Discipline</b>	<b>Men</b>	<b>Women</b>	<b>Total</b>
<b><u>Bachelor's</u></b>			
Agricultural Business and Production	25	14	39
Agricultural Sciences	17	47	64
Architecture and Related Programs	26	35	61
Area, Ethnic, and Cultural Studies	92	172	264
Biological Sciences/Life Sciences	283	436	719
Business Management and Administrative Services	1,512	1,402	2,914
Communications	365	610	975
Computer and Information Sciences	281	73	354
Conservation and Renewable Natural Resources	21	34	55
Construction Trades	12	0	12
Education	168	475	643
Engineering	415	72	487
Engineering-Related Technologies	129	17	146
English Language and Literature/Letters	280	638	918
Foreign Languages and Literatures	61	141	202
Health Professions and Related Sciences	132	782	914
Home Economics, General	34	272	306
Law and Legal Studies	14	44	58
Liberal Arts and Sciences, Gen Studies and Humanities	394	565	959
Library Science	0	9	9
Marketing Operations/Marketing and Distribution	88	97	185
Mathematics	104	108	212
Mechanics and Repairers	0	1	1
Multi/Interdisciplinary Studies	150	152	302
Parks, Recreation, Leisure, and Fitness Studies	62	69	131
Personal and Miscellaneous Services	0	0	0
Philosophy and Religion	83	52	135
Physical Sciences	108	95	203
Protective Services	169	172	341
Psychology	277	1,201	1,478
Public Administration and Services	26	152	178
Science Technologies	2	2	4
Social Sciences and History	1,404	1,390	2,794
Theological Studies and Religious Vocations	8	1	9
Transportation and Materials Moving Workers	2	0	2
Visual and Performing Arts	429	554	983
<b>Total Bachelor's Degrees</b>	<b>7,173</b>	<b>9,884</b>	<b>17,057</b>

Appendix C (Continued)  
**Degrees and Certificates by Level, Discipline and Gender of Recipient**  
**Connecticut Colleges and Universities**  
2003-04

<b>Discipline</b>	<b>Men</b>	<b>Women</b>	<b>Total</b>
<b><u>Master's</u></b>			
Agricultural Business and Production	1	3	4
Agricultural Sciences	5	8	13
Architecture and Related Programs	43	32	75
Area, Ethnic, and Cultural Studies	25	39	64
Biological Sciences/Life Sciences	71	123	194
Business Management and Administrative Services	1,220	838	2,058
Communications	14	29	43
Computer and Information Sciences	212	108	320
Conservation and Renewable Natural Resources	39	71	110
Education	623	2,132	2,755
Engineering	301	58	359
Engineering-Related Technologies	22	7	29
English Language and Literature/Letters	32	49	81
Foreign Languages and Literatures	41	62	103
Health Professions and Related Sciences	180	673	853
Home Economics, General	29	105	134
Law and Legal Studies	19	20	39
Liberal Arts and Sciences, Gen Studies and Humanities	38	53	91
Library Science	14	121	135
Mathematics	37	50	87
Multi/Interdisciplinary Studies	4	5	9
Parks, Recreation, Leisure, and Fitness Studies	8	8	16
Philosophy and Religion	32	19	51
Physical Sciences	53	41	94
Protective Services	40	85	125
Psychology	49	177	226
Public Administration and Services	167	97	264
Social Sciences and History	164	114	278
Theological Studies and Religious Vocations	60	54	114
Visual and Performing Arts	177	150	327
<b>Total Master's Degrees</b>	<b>3,720</b>	<b>5,331</b>	<b>9,051</b>

Appendix C (Continued)  
**Degrees and Certificates by Level, Discipline and Gender of Recipient**  
**Connecticut Colleges and Universities**  
2003-04

<b>Discipline</b>	<b>Men</b>	<b>Women</b>	<b>Total</b>
<b><u>Doctoral</u></b>			
Agricultural Business and Production	2	0	2
Agricultural Sciences	4	1	5
Area, Ethnic, and Cultural Studies	6	3	9
Biological Sciences/Life Sciences	59	46	105
Business Management and Administrative Services	12	6	18
Computer and Information Sciences	4	1	5
Conservation and Renewable Natural Resources	7	4	11
Education	20	53	73
Engineering	44	11	55
English Language and Literature/Letters	8	14	22
Foreign Languages and Literatures	13	16	29
Health Professions and Related Sciences	26	45	71
Home Economics, General	1	1	2
Law and Legal Studies	6	1	7
Liberal Arts and Sciences, Gen Studies and Humanities	2	1	3
Mathematics	17	4	21
Multi/Interdisciplinary Studies	0	3	3
Philosophy and Religion	10	3	13
Physical Sciences	44	19	63
Psychology	23	43	66
Public Administration and Services	0	0	0
Social Sciences and History	36	35	71
Theological Studies and Religious Vocations	7	5	12
Visual and Performing Arts	18	8	26
<b>Total Doctoral Degrees</b>	<b>369</b>	<b>323</b>	<b>692</b>
<b><u>First-Professional</u></b>			
Health Professions and Related Sciences	171	164	335
Law and Legal Studies	266	267	533
Theological Studies and Religious Vocations	43	38	81
<b>Total First-Professional Degrees</b>	<b>480</b>	<b>469</b>	<b>949</b>