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ABSTRACT

In the context of an increased emphasis on accountability in higher education and time taken to earn a baccalaureate degree, the Board of Regents of the State University System of Florida conducted a national survey of 75 public universities concerning the minimum credit hours required for the baccalaureate degree for various disciplines. The survey confirmed earlier studies showing an upward creep in credit hours required for most fields. As a result, the Florida State University System reduced 506 of its 614 Bachelor's programs to 120 hours, with the exceptions being mainly in engineering, visual and performing arts, and the health professions. Four text tables summarize data on disciplines with low, moderate, and high credit-hour requirements, and for 5-year baccalaureate programs. The appendix describes data reporting and analysis techniques, lists participating institutions, and defines terms used in the report. Also appended are survey results by discipline, including agribusiness, agricultural sciences, natural resources, architecture and environmental design, area and ethnic studies, communication, computer science, education, engineering, foreign languages, home economics, law, letters, liberal studies, life sciences, mathematics, multi/interdisciplinary studies, leisure and fitness, philosophy and religion, physical sciences, psychology, protective services, public services, social sciences, production trades, transportation, visual and performing arts, health professions, and business and management. (CH)

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# Hours to Graduation: A National Survey of Credit Hours Required for Baccalaureate Degrees

ED 409 776



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# **Hours to Graduation: A National Survey of Credit Hours Required for Baccalaureate Degrees**

## **ABSTRACT**

Accountability has given rise to renewed interest in how long it takes to earn a baccalaureate degree. In recognition of the growing number of part-time students, some states have shifted their focus from the length of time, to the number of credit hours required to complete baccalaureate degrees. Can 120 hours still be considered the norm? In order to address this issue, the State University System of Florida conducted a survey of major public institutions in the United States. This publication will discuss the findings of the 1995 survey on credit hours required for baccalaureate degrees in a wide array of disciplines.

# Table of Contents

Introduction.....	1
Background .....	2
Methodology.....	3
Analysis.....	4
Conclusion.....	10
References.....	13
Appendix:.....	14
Comments on data reporting and analysis.....	15
List of Participants.....	17
Definition of Terms.....	18
Survey Results by Discipline:.....	19
Agribusiness and Production.....	19
Agriculture Sciences.....	19
Natural Resources.....	19
Architecture and Environmental Design.....	19
Area and Ethnic Studies.....	20
Mass Communication.....	20
Computer Science.....	20
Education.....	21
Engineering.....	22
Engineering Technology.....	23
Foreign Languages.....	23
Home Economics.....	23
Law.....	24
Letters.....	24
Liberal Studies.....	24
Life Sciences.....	24
Mathematics.....	24

Multi / Interdisciplinary Studies.....	24
Leisure and Fitness.....	25
Philosophy and Religion.....	25
Physical Sciences.....	25
Psychology.....	25
Protective Services.....	25
Public Services.....	25
Social Sciences.....	26
Production Trades.....	26
Transportation.....	26
Visual and Performing Arts.....	27
Health Professions.....	28
Business and Management.....	29

# Hours to Graduation: A National Survey of Credit Hours Required for Baccalaureate Degrees

## Introduction

The purpose of this publication is to present and discuss the findings of a national survey on the number of credit hours required for baccalaureate degree programs in the various disciplines. The survey was conducted by the Board of Regents for the State University System of Florida.

The accountability movement in higher education today is making sweeping changes in many aspects of academic programs. A growing concern in many states is the length of time and resources required to complete a bachelor's degree. Traditionally, the requirements of a bachelor's degree were considered to be 120 semester hours, or 180 quarter hours, which could be completed in four years. In recent years, an upward creep in the number of credit hours required in some disciplines has become evident. Lawmakers who are under pressure to provide increasing funds to fight crime while not increasing taxes, are seeking ways to reduce the public costs of higher education. Reducing the credit hours required for graduation is seen by many legislators as one means of reducing resources and time required to complete a bachelor's degree, and thereby increasing access to more students.

## Background

Data from the National Center for Educational Statistics (NCES) indicate that the mean number of credit hours required for a bachelor's degree increased from 126 credits for the high school class of 1972 to 139.4 credits for the high school class of 1982, a 9.6 percent increase (Adelman, 1995). In the past few years several states have taken steps to reduce the number of hours taken by students as well as the number of hours required for graduation.

A study by the South Carolina Commission on Higher Education published in February 1996 found that some states have opted for a highly centralized approach, often involving tuition surcharges, while others have chosen a more decentralized approach. For example, North Carolina and the Montana University System have instituted tuition surcharges for credit hours taken beyond a specified number of hours. The State University System of Florida (SUS) will soon institute similar surcharges. Some states and institutions have taken the approach of reducing credit hours required for baccalaureate degrees. For example, the Arizona Board of Regents and the Florida Board of Regents, beginning in Fall 1996, will reduced nearly all baccalaureate degree requirements to 120 semester hours. The University of

Wisconsin System has chosen a more decentralized approach, requiring each institution to decrease the number of credits required for graduation, and leaving it up to the institution to determine the amount of the reduction. The State College and University Systems of West Virginia are requiring institutions to offer courses in a manner which provides for timely graduation, and the institutional boards are considering limiting the requirements to 120 semester hours. Marshall University has already adopted such a policy. Based on the comments received during the survey conducted by the Florida Board of Regents (BOR), several other institutions across the country have instituted or are considering policies to reduce the number of credit hours required for graduation. What follows is the methodology and findings of the national survey on credit hours conducted by the Florida BOR.

## **Methodology**

In 1995 the Florida legislature required the SUS to reduce the credit hours required for all baccalaureate degrees to 120, with provision for some exceptions to be designated by the BOR. In executing this task the Board wanted to ensure that exceptions were granted in the appropriate disciplines so that students would be adequately prepared in their field. Discovering the



norms in credit hour requirements for each discipline therefore became an important task.

A survey questionnaire was mailed in April 1995 to 91 public universities in the United States. Selection of the sample was based on representation from all of the 50 states, and enrollment size (medium to large enrollments). A follow-up letter was mailed in May 1995. The final count of institutions that provided usable responses was 71, a 78% rate of return. To provide representation of public universities in Florida, credit hour requirements of four institutions from the SUS were added to the survey, bringing the total number of participating institutions to 75.

The purpose of the survey was to determine the norms for credit hour requirements in the various disciplines, at public institutions of higher education. The survey focused on the minimum hours required by the curriculum for each program, rather than the actual hours attempted by students in the process of obtaining a degree.

The details of the methodology used to conduct the survey and perform the analysis are described in the appendix, along with the detailed results of the survey.

## **Analysis**

The survey report in the appendix provides detailed data on

344 six-digit Classification of Instructional Programs (CIP) codes. In every discipline (the two digit CIP level) at least one program reported requiring only 120 credit hours. However, the proportion of programs at 120 hours varied considerably by discipline. At the high end, 14 of 30 disciplines reported at least one program requiring over 140 hours. The following analysis addresses some of the patterns which emerged from the survey.

**Disciplines with Low Credit Hour Requirements**

**Table 1  
Low Credit Hour Requirements**

<b>Discipline</b>	<b>No. of programs offered</b>	<b>Mean</b>	<b>Median</b>
Liberal Studies	75	123.0	120.0
Area & Ethnic Studies	186	122.5	120.0
Foreign Language	468	122.9	120.5
Social Sciences	446	123.2	122.0
Letters	143	123.3	122.0
Protective Services	45	123.2	122.0
Philosophy & Religion	107	123.4	123.0
Psychology	77	123.8	122.5
Mathematics	130	123.7	122.0
Multi-Discipl. Studies	51	124.1	124.0

Disciplines that have maintained a relatively low credit hour requirement for graduation, where 40% or more of the programs reported 120 credit hours appear in Table 1. They consist mainly of liberal arts and social science disciplines.

#### **Disciplines with Moderate Credit Hour Requirements**

Disciplines that could be considered middle-of-the-road in credit hour requirements, where 25% to 39% of the programs required 120 credit hours were primarily in sciences, communication, business, and visual and performing arts. The disciplines along with the means and medians appear in Table 2.

The visual and performing arts varied considerably by subdiscipline, with motion pictures and visual arts programs averaging 122.9 (median 122.3) and 124.1 (median 122.6) respectively, at the low end, and music programs averaging 128.6 (median 127.7), at the high end. While most music disciplines reported some programs at 120 hours, the maximum hours required in the subdisciplines were as high as the 150 - 160 hour range, providing great variation even within the discipline of music. As expected, subdisciplines with bachelor of fine arts programs tended to have higher credit hour requirements than bachelor of arts programs, presumably due to higher skill requirements.

**Table 2**  
**Moderate Credit Hour Requirements**

Discipline	No. of programs offered	Mean	Median
Life Sciences	279	124.9	124.0
Public Services	67	124.3	124.0
Physical Sciences	291	124.5	124.0
Computer Science	73	125.1	124.0
Mass Communication	168	124.3	124.0
Visual & Perform. Arts	512	126.0	124.0
Business & Management	428	125.7	126

Home economics fell between the "moderate" and "high" categories with less than 25% of the programs at 120 hours, but with the same median number of hours as business (126). Leisure and fitness fell between the "moderate" and "high" categories also, with 18% of the programs at 120 hours, and a median of 127.

**Disciplines with High Credit Hour Requirements**

Disciplines with relatively high credit hour requirements, where the median was at or above 128 hours, less than 25% of the programs were at 120, and more than 30% of the programs were over 128, were education, natural resources, health professions, agribusiness, agriculture, architecture, engineering technology, engineering, and transportation. Table 3 lists the programs in this category.

**Table 3**  
**High Credit Hour Requirements**

Discipline	No. of programs offered	Mean	Median
Education	693	128.3	128.0
Natural Resources	94	127.6	128.0
Health Professions	295	130.8	128.0
Agribusiness/Production	75	127.3	128.0
Agriculture Sciences	178	126.9	128.0
Architecture	87	141.9	139.0
Engineering Technology	84	130.1	129.0
Engineering	513	132.2	132.0
Transportation	9	128.7	128.5

It is interesting to note that the professional programs, such as the health professions, engineering, education, and architecture, tend to cluster at the high end of credit hour requirements.

The health professions varied among the subdisciplines. Among the most frequently reported programs, only speech pathology/audiology (mean 123.9, median 124) had a median requirement of less than 128 credit hours. The median hours required in professions such as nursing, pharmacy (five year programs), physical therapy, medical technology, and occupational therapy all were at or over 128 hours, which would place them in the "high" category of required hours.

Education presents a unique situation. Teacher education

programs tend to have relatively high credit hour requirements because they combine the knowledge and skills of a content area (e.g. music, mathematics) with pedagogical skills for certification. Several comments on the survey noted that additional credit hours (beyond those reported) were necessary to fulfill certification requirements. Therefore the true requirements for teacher education programs, including certification requirements, are probably higher than those reflected in the survey.

#### **Five Year Baccalaureate Programs**

Some disciplines have both four year programs and formally designated five year programs at the baccalaureate level. The four year programs are generally not considered "professional" programs leading to licensure, while the five year programs do meet the requirements for licensure. Table 4 lists the disciplines with five year baccalaureate programs.

**Table 4  
Five Year Baccalaureate Programs**

<b>Discipline</b>	<b>No. of programs offered</b>	<b>Mean</b>	<b>Median</b>
Interior Design	3	156.0	156.0
Landscape Architecture	13	157.4	157.0
Pharmacy	17	164.7	161
Architecture	19	163.6	163

## **Post-baccalaureate Programs**

While many administrators in higher education grapple with the need to reduce hours required for baccalaureate degrees, there is also pressure in the opposite direction to increase the knowledge and skill level of those entering professions. Professionals and faculty in some fields, notably in the health professions, argue that the increasing complexity of the services or products their fields supply, and the changing nature of their disciplines and society, demand an education beyond the baccalaureate degree. If current proposals being considered by the professional associations in pharmacy and physical therapy come to fruition, the only accredited first professional degree programs in these fields will be at the post-baccalaureate level (Pharm.D. and master's or DPT respectively). Some physician assistant programs are also converting to the master's level. In regard to other disciplines, some teacher education programs have converted to master's level, and five-year programs culminating in a master's degree are developing in fields such as engineering and business.

## **Conclusion**

Previous studies have documented what many suspected: that there has been an upward creep in credit hours required for baccalaureate degrees. With fiscal concerns looming large, both

private and public institutions are seeking to reduce costs by various methods aimed at decreasing the time spent in obtaining a degree. One obvious means of doing so is to reduce the credit hours required.

The survey conducted by the SUS attempted to assess the norms in credit hour requirements among public institutions. The results could be helpful to institutions seeking to analyze their required hours, by providing information on where their own programs may have requirements exceeding the norm, and which programs should be considered as exceptions to the 120 hour rule.

In the SUS, the results of the survey, in addition to other relevant information, guided a dramatic reduction of hours within the span of one year. Of the 614 bachelor's program in the system, 506 were reduced to 120 hours. The exceptions to 120 hours fall mainly within the disciplines of engineering, visual and performing arts, and health professions.

It is interesting to note that programs in the liberal arts and sciences, and social sciences, which aim at educating students in the broad, traditional sense of the term, appear to have kept requirements close to the 120 hour mark.

On the other hand, professional programs (e.g. engineering, education, health, architecture) tend to have higher credit hour



requirements. The increased expectations regarding the skill level of those entering these professions, the need to function independently, accreditation requirements, and licensure all probably contribute to the increased hours.

Ironically, the pressure to decrease the hours required for baccalaureate degrees may increase the impetus for some programs, such as teacher education, pharmacy, and physical therapy, to convert to post-baccalaureate programs. A more general concern is that the simultaneous movement to reduce the hours required and to institute a tuition surcharge for "excess" hours taken by students, will place many students in lock-step curricula with little room for electives, denying them the opportunity to change majors, or to explore ideas and cultivate their minds.

The move to reduce credit hour requirements should have some positive outcomes, including reducing costs and taking a fresh look at curricula which may be in need of an overhaul. While few would question the need for increased efficiency, we should all strive to ensure that students are not limited to a narrow training but are exposed to a breadth of knowledge that enriches their lives and that they may continue to build on the rest of their lives.

## References

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# Appendix

## Comments on Data Reporting and Analysis

### **Semester Hours vs Quarter Hours**

Some responding institutions were on quarter hours. All these responses were converted to semester hours, and the results reported uniformly in semester hours. The conversion table used to convert quarter hours to semester hours is included in the appendix.

### **Consolidation of Programs**

Some programs that were not offered in the State University System of Florida, and were reported by only one or two institutions, were grouped together if they had similar (although not the same) program titles, or were grouped in an "other" category under the given discipline.

### **Ranges in Credit Hour Requirements**

Some responses indicated ranges in the credit hour requirements for a degree program. Ranges were generally due to different tracks within a program. In order to calculate, each university was set up with two columns, one to report the minimum and the other to report the maximum number in the range. If a response reported a single number rather than a range, that number was repeated in both columns. The count of responses only counts each institution's response once per program.

## **Four and Five Year Programs**

Some programs may be offered as four or five year programs. When responses indicated a five year program, they were reported separately from the four year program. For programs that are widely recognized as having four and five year programs, but which did not specify whether four or five year, a determination was made based on the number of credit hours required. When an architecture or pharmacy program reported 150 or more credit hours, it was categorized as a five year program.

## **Teacher Education Programs**

Several teacher education programs had comments which indicated that the actual number of credit hours students needed to complete was more than the required hours indicated. The following are examples of comments:

"BA Education requires 120 (credit hours), but in order for students to be marketable most get a minor which is an additional 18-21 credits."

"Regarding all Education majors -- a bachelor's degree can be earned with 126 hours (4 years) but certification requires a fifth year."

These comments are captured in a footnote at the bottom of the education section of the results.

# List of Participating Institutions

The following is a list of all universities which provided usable responses to the survey.

ARIZONA STATE UNIVERSITY	UNIVERSITY OF ILLINOIS - URBANA CHAMPAIGNE
AUBURN UNIVERSITY	UNIVERSITY OF KANSAS
BALL STATE UNIVERSITY	UNIVERSITY OF KENTUCKY
FLORIDA STATE UNIVERSITY	UNIVERSITY OF LOUISVILLE
GEORGIA STATE UNIVERSITY	UNIVERSITY OF MAINE
GEORGIA TECH	UNIVERSITY OF MARYLAND - BALTIMORE COUNTY
INDIANA STATE UNIVERSITY	UNIVERSITY OF MARYLAND - COLLEGE PARK
IOWA STATE UNIVERSITY	UNIVERSITY OF MARYLAND - EASTERN SHORE
KANSAS STATE UNIVERSITY	UNIVERSITY OF MASSACHUSETTS - BOSTON
LOUISIANA STATE UNIVERSITY	UNIVERSITY OF MICHIGAN - ANN ARBOR
MICHIGAN STATE UNIVERSITY	UNIVERSITY OF MINNESOTA - TWIN CITIES
MISSISSIPPI STATE UNIVERSITY	UNIVERSITY OF MISSISSIPPI
NEW MEXICO STATE UNIVERSITY	UNIVERSITY OF MISSOURI - COLUMBIA
NORTH CAROLINA STATE UNIVERSITY	UNIVERSITY OF MISSOURI - KANSAS CITY
OHIO STATE UNIVERSITY - COLUMBUS	UNIVERSITY OF MONTANA
OHIO UNIVERSITY	UNIVERSITY OF NEBRASKA - LINCOLN
PENNSYLVANIA STATE UNIVERSITY	UNIVERSITY OF NEVADA - LAS VEGAS
SOUTHERN ILLINOIS UNIVERSITY- CARBONDALE	UNIVERSITY OF NEW HAMPSHIRE
STATE UNIVERSITY OF NEW YORK - BINGHAMTON	UNIVERSITY OF NEW ORLEANS
STATE UNIVERSITY OF NEW YORK - STONY BROOK	UNIVERSITY OF NORTH CAROLINA - CHAPEL HILL
TEMPLE UNIVERSITY	UNIVERSITY OF NORTH DAKOTA
TENNESSEE STATE UNIVERSITY	UNIVERSITY OF OKLAHOMA
TEXAS A & M UNIVERSITY	UNIVERSITY OF OREGON
TEXAS SOUTHERN UNIVERSITY	UNIVERSITY OF PITTSBURGH
UNIVERSITY OF ALABAMA - TUSKALOOSA	UNIVERSITY OF RHODE ISLAND
UNIVERSITY OF ALABAMA - BIRMINGHAM	UNIVERSITY OF SOUTH FLORIDA
UNIVERSITY OF ALASKA - FAIRBANKS	UNIVERSITY OF TENNESSEE - KNOXVILLE
UNIVERSITY OF ARKANSAS	UNIVERSITY OF TEXAS - AUSTIN
UNIVERSITY OF CALIFORNIA - IRVINE	UNIVERSITY OF TEXAS - EL PASO
UNIVERSITY OF CALIFORNIA - LOS ANGELES	UNIVERSITY OF VIRGINIA
UNIVERSITY OF CENTRAL FLORIDA	UNIVERSITY OF WASHINGTON
UNIVERSITY OF CINNCINATI	UNIVERSITY OF WISCONSIN - MADISON
UNIVERSITY OF COLORADO - BOULDER	UNIVERSITY OF WYOMING
UNIVERSITY OF DELAWARE	UNIVERSITY OF MASSACHUSETTS - AMHERST
UNIVERSITY OF FLORIDA	WASHINGTON STATE UNIVERSITY
UNIVERSITY OF GEORGIA	WEST VIRGINIA UNIVERSITY
UNIVERSITY OF HOUSTON	WESTERN MICHIGAN UNIVERSITY
UNIVERSITY OF ILLINOIS - CHICAGO	

75 NATIONAL COLLEGES AND UNIVERSITIES

## Definition of Terms

**CIP:** The six digit codes from the Classification of Instructional Programs (CIP codes) were used to classify degree programs. The CIPs are the U.S. Department of Education's standard educational program classification system.

**Degree Title:** The name of the degree program

**Count of Universities Offering Program:** The number of responding institutions which provided credit hour information on the particular program.

**Credit Hours:** The least number of semester hours required to complete a bachelor's degree (freshman through graduation).

**Minimum:** The lowest number of required credit hours reported by responding institutions.

**Maximum:** The highest number of required credit hours reported by responding institutions.

**Mean:** The mean average of all responses for the particular program.

**Median:** The median of all responses for the particular program.

In cases where a program had only one responding institution, but that institution indicated a range in the credit hour requirement, the mean average was reported for the median as well.



**SURVEY OF PUBLIC UNIVERSITIES AND COLLEGES  
SEMESTER CREDIT HOURS REQUIRED TO COMPLETE BACCALAUREATE DEGREE**

CIP	DEGREE TITLE	COUNT OF UNIVERSITIES OFFERING				
		PROGRAM	MINIMUM	MAXIMUM	MEAN	MEDIAN

**AGRIBUSINESS / PRODUCTION**

01.0102	Ag Busi & Operations	25	120	135	127.2	128.0
01.0103	Ag (Food and Res) Econ	25	120	136	126.7	128.0
01.0104	Farm & Ranch Mgmt	1	128	128	128.0	128.0
01.0201	Ag Mechanics	5	124	132	127.4	127.0
01.0401	Food Processing/Packaging	3	120	130	126.7	130.0
01.0404	Feed Science & Mgmt	1	127	127	127.0	127.0
01.0601	Horticulture/Floriculture Mgmt	3	129	132	130.3	130.0
01.0605	Landscape Operations & Mgmt	8	120	134	128.0	129.0
01.0607	Turfgrass Science	2	128	130	129.0	129.0
01.0701	International Agriculture	2	124	128	126.0	126.0

**AGRICULTURE SCIENCES**

02.0101	Agriculture Science	18	120	132	126.6	128.0
02.0201	Animal Science (variety)	30	120	136	126.9	128.0
02.0206	Dairy Science	10	120	132	126.3	128.0
02.0209	Poultry Science	10	120	132	127.0	128.0
02.0301	Food Science & Tech	26	120	134	126.9	128.0
02.0401	Plant (& Soil) Sciences	15	120	136	128.5	128.0
02.0402	Agronomy and Crop Sci	24	120	133	126.5	128.0
02.0403	Horticulture Science	22	120	133	126.8	128.0
02.0408	Agriculture Pest Mgmt	3	128	132	129.3	128.0
02.0409	Rangeland Ecology	1	132	132	132.0	132.0
02.0501	Soils Science	17	120	132	126.4	128.0
02.9999	Agriculture, Other	2	124	128	127.0	128.0

**NATURAL RESOURCES**

03.0101	Natural Resources Mgmt & Plan	12	120	138	126.8	127.0
03.0102	Environmental Studies	34	120	139	126.4	126.0
03.0301	Marine Fisheries	5	120	134	126.8	130.0
03.0305	Aquaculture - Marine Affairs	2	120	120	120.0	120.0
03.0404	Ag Forestry - Wood Industries	6	125	141	132.3	131.5
03.0501	Forest Res & Conservation	23	120	140	128.4	129.5
03.0509	Wood & Paper/Pulp Tech	2	120	133	126.5	126.5
03.0601	Wildlife (& Fisheries) Science	10	120	137	129.8	130.0

**ARCHITECTURE**

04.0201	Architecture - Four Year	15	120	146	128.5	128.0
04.0201	Architecture - Five Year	19	150	176	163.6	163.0
04.0210	Architectural Studies/History	3	122	130	126.3	127.0
04.0295	Design in Arch Studies	7	124	160	140.6	139.0
04.0301	Regional / Urban Planning	9	120	145	125.7	122.0
04.0401	Environmental Design	3	120	128	124.0	124.0
04.0501	Interior Architecture	1	161	161	161.0	161.0
04.0601	Landscape Arch - Four Year	16	120	147	131.0	131.0
04.0601	Landscape Arch - Five Year	13	150	167	157.4	157.0
04.9555	Housing & Land Development	1	135	139	137.0	137.0





**SURVEY OF PUBLIC UNIVERSITIES AND COLLEGES  
SEMESTER CREDIT HOURS REQUIRED TO COMPLETE BACCALAUREATE DEGREE**

CIP	DEGREE TITLE	COUNT OF UNIVERSITIES OFFERING				
		PROGRAM	MINIMUM	MAXIMUM	MEAN	MEDIAN
<b>AREA &amp; ETHNIC STUDIES</b>						
05.0102	American Studies (USA)	25	120	131	122.0	120.0
05.0103	Asian Studies	26	120	131	122.3	120.0
05.0105	Russian & E. European Studies	24	120	131	122.8	121.5
05.0107	Latin American Studies	28	120	131	122.6	120.5
05.0199	Area Studies, Unusual Areas	4	120	130	123.0	121.0
05.0201	African-Amer (Black) Studies	32	120	131	122.2	120.0
05.0202	Alaska Native Studies	1	130	130	130.0	130.0
05.0205	Jewish Studies	13	120	131	122.3	120.0
05.0207	Women's Studies	31	120	131	122.5	121.0
05.0209	Chicano Studies	2	120	131	124.8	124.0
<b>MASS COMMUNICATION</b>						
09.0101	Communication (Mass)	45	120	138	124.1	124.0
09.0201	Advertising	20	120	131	124.1	124.0
09.0401	Journalism	48	120	138	124.6	124.0
09.0410	Magazine Production	6	120	124	120.8	120.0
09.0480	Agricommunication	3	126	128	127.0	127.0
09.0501	Public Relatns & Org Comm.	15	120	131	125.0	125.0
09.0701	Radio & TV Broadcasting	31	120	131	124.5	125.0
<b>COMPUTER SCIENCE</b>						
11.0101	Computer & Information Sci	67	120	137	125.2	124.0
11.0401	Info Science & Systems	4	120	132	123.0	120.0
11.0701	Computer Science	2	120	135	127.3	127.0



**SURVEY OF PUBLIC UNIVERSITIES AND COLLEGES  
SEMESTER CREDIT HOURS REQUIRED TO COMPLETE BACCALAUREATE DEGREE**

CIP	DEGREE TITLE	COUNT OF UNIVERSITIES OFFERING				
		PROGRAM	MINIMUM	MAXIMUM	MEAN	MEDIAN
<b>EDUCATION</b>						
13.0101	Education, General	2	124	131	127.3	127.0
13.0401	Ed Leadership	1	130	131	130.5	130.5
13.0802	Ed Psychology	1	130	131	130.5	130.5
13.1001	Special Ed - Four Year	11	120	149	126.9	125.0
13.1001	Special Ed - Five Year	1	150	150	150.0	150.0
13.1005	Ed of the Emotional Handicap	11	120	138	126.3	124.0
13.1006	Ed of the Mental Handicap	16	120	138	125.3	123.0
13.1007	Multiple Disabilities	1	138	138	138.0	138.0
13.1009	Ed of Blind & Visual Handicap	4	120	130	123.4	120.0
13.1011	Ed of Specific Learning Disable	12	120	150	126.8	120.0
13.1012	Ed of Speech Impaired	7	120	148	129.1	126.0
13.1201	Adult Ed	2	128	136	132.0	132.0
13.1202	Elementary Teacher Ed	56	120	165	129.2	128.0
13.1202	Urban Early & Mid Child Ed	1	131	131	131.0	131.0
13.1203	Jr High/Middle School Ed	14	120	130	124.9	125.0
13.1204	Pre-Elem/Early Child Ed	33	120	172	129.6	128.0
13.1205	Secondary Teacher Ed	34	120	162	127.8	126.0
13.1295	Post Secondary Ed	1	124	142	133.0	133.0
13.1301	Agricultural Teacher Ed	23	120	145	130.9	130.0
13.1302	Art Teacher Ed	40	120	152	128.4	126.0
13.1303	Business Teacher Ed	26	120	157	127.2	125.0
13.1306	English Teacher Ed	36	120	150	127.3	126.0
13.1306	Foreign Lang Teacher Ed	37	120	157	127.5	126.0
13.1307	Health Teacher Ed	29	120	148	127.8	128.0
13.1308	Home Ec Teacher Ed	24	120	145	128.6	128.0
13.1311	Mathematics Teacher Ed	40	120	150	127.6	126.0
13.1312	Music Teacher Ed	46	120	158	131.5	130.0
13.1314	Physical Ed & Coaching	48	120	142	128.2	128.0
13.1315	Reading Teacher Ed	10	120	133	127.4	128.0
13.1316	Science Teacher Ed	39	120	162	129.4	128.0
13.1318	Social Studies Teacher Ed	35	120	157	127.9	125.0
13.1320	Trade, Voc, Ext, Ind. Teacher Ed	27	120	139	126.1	125.0
13.1324	Dance Education	1	144	144	144.0	144.0
13.1325	Psychology Education	1	124	124	124.0	124.0
13.1326	Phys Ed and Health Ed	1	134	134	134.0	134.0
13.1331	Speech Ed	2	124	132	128.0	128.0
13.1335	Bi-Lingual Ed	1	130	131	130.5	130.5
13.1395	Secondary Sci/Math Teach	17	120	155	128.8	126.0
13.1399	Journalism Ed	1	124	124	124.0	124.0
13.1401	ESOL	1	128	131	129.5	129.5

Note: Several universities indicated that education programs (especially secondary programs) required additional hours and/or a fifth year for certification, or a minor for marketability.



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CIP	DEGREE TITLE	COUNT OF UNIVERSITIES OFFERING				
		PROGRAM	MINIMUM	MAXIMUM	MEAN	MEDIAN
<b>ENGINEERING</b>						
14.0101	Engineering, General	18	120	161	130.4	128.0
14.0201	Aerospace Engineering	29	127	140	133.4	134.0
14.0301	Agricultural Engineering	25	126	139	132.9	134.0
14.0401	Architectural Engineering	3	162	168	164.7	164.0
14.0501	Bio Engineering	6	120	135	129.2	129.5
14.0601	Ceramic Engineering	2	128	131	129.5	129.5
14.0701	Chemical Engineering	53	120	150	132.2	132.0
14.1701	Industrial/Manufacturing Eng	35	120	142	130.9	131.0
14.0705	Chemical & Ocean Eng.	1	133	133	133.0	133.0
14.0801	Civil Engineering	61	120	150	132.9	134.0
14.0895	Civil & Environmtl Engineering	2	135	136	135.5	135.5
14.0901	Computer Engineering	43	120	150	131.3	132.0
14.1001	Electrical, Electronics Eng	62	120	150	131.8	131.0
14.1005	Electrical & Computer Engineer	1	136	136	136.0	136.0
14.1101	Engineering Mechanics	7	126	139	131.0	129.0
14.1201	Engineering Physics	6	120	135	129.7	130.0
14.1301	Engineering Science	2	136	137	136.5	136.5
14.1401	Environmental Health Eng	8	128	137	130.9	129.0
14.1410	Forest Engineering	1	141	141	141.0	141.0
14.1415	Bio-Resource Engineering	1	130	130	130.0	130.0
14.1501	Geological Engineering	3	132	139	134.3	134.0
14.1701	Industrial / Mnfctrng Engineer					
14.1801	Materials Engineering	22	120	150	131.5	130.5
14.1901	Mechanical Engineering	66	120	150	131.5	131.0
14.1910	Automotive Engineering	1	128	128	128.0	128.0
14.2001	Metallurgical Engineering	6	128	139	131.8	131.0
14.2101	Mining & Mineral Processing Eng	6	128	138	134.2	135.5
14.2201	Marine (Naval) Engineering	1	138	153	145.5	145.5
14.2301	Nuclear Engineering	14	125	143	131.6	131.0
14.2401	Coastal & Ocean Eng	2	135	137	136.0	136.0
14.2501	Petroleum Engineering	9	128	153	134.3	132.0
14.2701	Industrial & Systems Eng	9	120	139	132.9	135.0
14.2801	Textile Engineering	3	126	137	132.7	135.0
14.3001	Engineering Management	5	120	147	130.0	128.0



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CIP	DEGREE TITLE	COUNT OF UNIVERSITIES OFFERING				
		PROGRAM	MINIMUM	MAXIMUM	MEAN	MEDIAN
<b>ENGINEERING TECHNOLOGY</b>						
15.0201	Civil Technology	4	128	136	131.8	131.5
15.0202	Design Engineering Tech	4	128	131	129.3	129.0
15.0301	Computer/Engineering Tech	3	128	143	135.3	135.0
15.0303	Electronic Engineering Tech	14	128	141	131.4	131.5
15.0403	Electro-Mechanical Eng Tech	1	131	131	131.0	131.0
15.0504	Environmntl & Urban Systems	3	124	129	127.0	128.0
15.0603	Industrial/Manufacturing Tech	12	120	136	128.0	128.0
15.0801	Aeronautical Eng Tech & Mgmt	1	132	132	132.0	132.0
15.0805	Mechanical Engineering Tech	11	124	135	129.5	128.5
15.0901	Mining Tech	1	120	120	120.0	120.0
15.0903	Fuel Science (Petroleum)	1	125	125	125.0	125.0
15.1001	Construction/Building Tech	19	120	146	131.5	131.0
15.1101	Engineering Tech	2	126	136	131.0	131.0
15.1102	Surveying	7	124	137	130.0	130.0
15.2801	Textile Technology	1	120	123	121.5	121.5

**FOREIGN LANGUAGES**

16.0101	Foreign Lang, Multiple	25	120	136	123.9	124.0
16.0102	Linguistics	40	120	131	122.4	120.0
16.0390	East Asian Lang/Lit	21	120	131	122.1	120.0
16.0402	Russian	47	120	131	122.7	120.0
16.0403	Slavic Lang & Lit - Polish	4	120	120	120.0	120.0
16.0501	German	60	120	131	123.1	122.0
16.0502	Scandinavian	2	120	120	120.0	120.0
16.0905	Spanish	65	120	133	123.4	123.0
16.0901	French	64	120	132	123.3	122.5
16.0902	Italian	29	120	132	121.8	120.0
16.0904	Portuguese	16	120	131	121.9	120.0
16.1201	Classics & Classical Lang.	43	120	131	122.3	120.0
16.1202	Greek, Classical	20	120	131	123.1	122.0
16.1203	Latin	28	120	131	123.4	123.0
16.1290	Medieval, Ancient Studies	3	120	124	121.3	120.0
16.1401	Eskimo	1	130	130	130.0	130.0

**HOME ECONOMICS**

19.0101	Home Economics, Gen	25	120	137	125.7	126.0
19.0301	Family and Comm. Service	3	129	129	129.0	129.0
19.0401	Family Resource Mgmt Studies	3	124	129	127.0	128.0
19.0402	Consumer Science	8	120	129	124.3	124.5
19.0490	Family & Consumer Journalism	1	124	124	124.0	124.0
19.0503	Dietetics/Nutritional Serv	40	120	140	126.6	128.0
19.0601	Housing Studies, General	1	129	129	129.0	129.0
19.0701	Home & Family Life (Child Dev)	27	120	144	125.3	124.0
19.0704	Marriage & Family Living	9	120	131	124.1	123.0
19.0901	Textiles & Clothing	27	120	136	125.5	125.0
19.0902	Textile Marketing	2	120	120	120.0	120.0



**SURVEY OF PUBLIC UNIVERSITIES AND COLLEGES  
SEMESTER CREDIT HOURS REQUIRED TO COMPLETE BACCALAUREATE DEGREE**

CIP	DEGREE TITLE	COUNT OF UNIVERSITIES OFFERING				
		PROGRAM	MINIMUM	MAXIMUM	MEAN	MEDIAN
<b>LAW</b>						
22.0103	Legal Assisting	4	120	120	120.0	120.0
22.0120	Business Law	1	132	132	132.0	132.0
<b>LETTERS</b>						
23.0101	English, General	65	120	138	123.3	122.0
23.0301	Comparative Lit	6	120	126	121.7	120.0
23.0501	Creative Writing	3	120	131	124.5	124.0
23.0801	English Literature	28	120	131	122.8	120.5
23.1001	Rhetorical Speech & Commun.	41	120	131	123.8	124.0
<b>LIBERAL / GENERAL STUDIES</b>						
24.0101	Liberal Arts & Sciences	31	120	132	123.3	120.0
24.0102	Independent Studies	15	120	131	123.5	120.0
24.0103	Humanities	29	120	131	122.5	120.0
24.0104	New College					
<b>LIFE SCIENCES</b>						
26.0101	Biology, General	69	120	144	124.3	124.0
26.0202	Biochemistry	40	120	134	124.6	124.0
26.0301	Botany, General	33	120	136	124.9	124.0
26.0305	Plant Pathology	12	120	133	125.0	128.0
26.0495	Plant, Molecular, & Cell Bio	15	120	144	124.9	120.5
26.0501	Microbiology /Bacteriology	42	120	144	125.4	125.0
26.0603	Ecology (Limnology)	11	120	130	122.9	121.0
26.0607	Marine/Aquatic Biology	5	121	166	134.3	128.0
26.0608	Neuroscience	1	120	120	120.0	120.0
26.0613	Genetics, Plant, Seed & Animal	2	120	128	124.0	124.0
26.0701	Zoology (WildLife Conservation)	32	120	137	125.3	124.0
26.0702	Entomology	16	120	132	124.7	124.5
26.0706	Physiology	1	120	120	120.0	120.0
<b>MATHEMATICS</b>						
27.0101	Mathematics, General	71	120	136	123.7	122.0
27.0301	Applied Math/Math Sci	27	120	135	124.5	122.0
27.0501	Statistics	32	120	135	123.0	121.0
<b>MULTI / INTERDISCIPLINARY</b>						
30.0101	Biological & Physical Sci	16	120	146	125.0	124.0
30.0103	Interdisc Natural Sciences	4	120	128	123.5	123.0
30.0801	Interdisc Math & Computer Sci	3	120	128	122.7	120.0
30.1101	Gerontology	2	120	128	124.0	124.0
30.9901	Independent/Interdisc Studies	24	120	139	123.7	122.0
30.9901	Youth & Community Studies	1	130	130	130.0	130.0
30.9902	Foreign Lang & Interntl Economics	1	121	121	121.0	121.0

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CIP	DEGREE TITLE	COUNT OF UNIVERSITIES OFFERING				
		PROGRAM	MINIMUM	MAXIMUM	MEAN	MEDIAN
<b>LEISURE AND FITNESS</b>						
31.0301	Parks & Leisure Studies	29	120	136	126.4	128.0
31.0501	Health, Phys Ed, Rec, Sports	3	128	130	128.7	128.0
31.0503	Atheletic (Sport) Training	4	124	128	126.3	126.5
31.0504	Sport Management	2	120	124	122.0	122.0
31.0505	Mvmnt - Exercise Sci- Kinesiology	21	120	151	127.7	126.0
<b>PHILOSOPHY &amp; RELIGION</b>						
38.0101	Philosophy	69	120	131	123.4	123.0
38.0201	Religious Studies	33	120	131	123.3	123.0
38.0310	Philosophy & Religion	5	120	130	124.0	124.0
<b>PHYSICAL SCIENCES</b>						
40.0101	Radiation Physics	6	120	125	120.8	120.0
40.0101	Physical Science	2	120	135	127.5	127.5
40.0201	Astronomy	22	120	144	123.6	121.0
40.0301	Astrophysics	1	120	120	120.0	120.0
40.0401	Atmospheric Sci & Meteorol	15	120	135	124.5	124.5
40.0501	Chemistry	73	120	144	124.4	124.0
40.0508	Chemical Sciences	7	120	130	122.7	120.0
40.0510	Paper Science	1	136	136	136.0	136.0
40.0596	Clinical Chemistry	4	120	130	123.8	122.5
40.0598	Textile Chemistry	3	120	135	130.3	134.0
40.0601	Geology	65	120	146	124.8	124.0
40.0603	Geophysics	6	120	135	126.7	126.0
40.0610	Mineral Economics	1	120	120	120.0	120.0
40.0702	Oceanography	5	120	130	124.2	125.0
40.0703	Earth Science	8	120	130	123.9	124.0
40.0801	Physics	71	120	144	124.8	124.0
40.0815	Physics, Other	1	124	129	126.5	126.5
<b>PSYCHOLOGY</b>						
42.0101	Psychology, General	71	120	144	123.6	122.0
42.1101	PsychoBiology	1	126	126	126.0	126.0
42.1601	Social Psychology	5	120	130	124.8	125.0
<b>PROTECTIVE SERVICES</b>						
43.0104	Criminal Justice Studies	40	120	132	123.5	122.5
43.0106	Forensic Science	4	120	126	121.5	120.0
43.0107	Law Enforcement	1	120	120	120.0	120.0
<b>PUBLIC SERVICES</b>						
44.0202	Rural Development/Sociology	2	120	128	124.0	124.0
44.0401	Public Administration	19	120	132	124.2	124.0
44.0701	Social Work, General	46	120	138	124.3	124.0



**SURVEY OF PUBLIC UNIVERSITIES AND COLLEGES  
SEMESTER CREDIT HOURS REQUIRED TO COMPLETE BACCALAUREATE DEGREE**

CIP	DEGREE TITLE	COUNT OF UNIVERSITIES OFFERING				
		PROGRAM	MINIMUM	MAXIMUM	MEAN	MEDIAN
<b>SOCIAL SCIENCES</b>						
45.0101	Social Sciences Gen & Applied	29	120	131	122.7	121.0
45.0103	Social Ecology	1	120	120	120.0	120.0
45.0201	Anthropology	63	120	131	123.4	122.0
45.0302	Archeology (Classical & Antiquity)	1	124	124	124.0	124.0
45.0501	Demography & Pop Studies	1	125	125	125.0	125.0
45.0601	Economics, General & Applied	64	120	131	123.1	121.5
45.0701	Geography	52	120	135	123.3	121.0
45.0801	History	72	120	132	123.2	122.0
45.0901	International Relations	20	120	131	123.3	122.5
45.1001	Political Science & Govmt	69	120	131	123.4	123.0
45.1005	Social Thought & Political Economy	1	120	120	120.0	120.0
45.1101	Sociology	72	120	131	123.2	122.0
45.1201	Urban Social Processes	1	120	120	120.0	120.0
<b>PRODUCTION TRADES</b>						
48.0702	Furniture Manufacturing & Mgmt	1	132	132	132.0	132.0
<b>TRANSPORTATION</b>						
49.0101	Aviation - Aerospace Studies	3	125	131	127.5	128.0
49.0104	Aviation Admin/Mgmt	3	125	130	128.8	129.5
49.0105	Air Traffic Control	1	125	125	125.0	125.0
49.0199	Aviation, Other	1	125	132	128.5	128.5
49.0401	Naval Science	1	136	136	136.0	136.0



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CIP	DEGREE TITLE	COUNT OF UNIVERSITIES OFFERING			MEAN	MEDIAN
		PROGRAM	MINIMUM	MAXIMUM		
<b>VISUAL AND PERFORMING ARTS</b>						
50.0105	Integrative Arts	1	124	124	124.0	124.0
50.0301	Dance	32	120	144	125.7	125.0
50.0401	Design & Visual Communications	2	121	127	124.0	124.0
50.0402	Graphic Design	23	120	151	125.9	124.0
50.0404	Product (Industrial) Design	4	127	154	135.0	129.5
50.0407	Fashion Design & Illustration	2	120	129	124.5	124.5
50.0408	Interior Design - Four Year	26	120	145	126.5	124.5
50.0408	Interior Design - Five Year	3	154	158	156.0	156.0
50.0501	Dramatic Arts - Theatre Design	59	120	162	124.9	124.0
50.0601	Motion Picture, TV	10	120	126	121.6	120.5
50.0602	Motion Picture & TV Tech	9	120	130	124.2	124.0
50.0605	Photography	2	120	122	121.0	121.0
50.0701	Art, General	51	120	153	124.3	122.0
50.0702	Studio/Fine Art	44	120	149	126.3	126.0
50.0703	Art History & Apprec	43	120	132	122.9	121.0
50.0704	Arts Administration	1	120	120	120.0	120.0
50.0801	Graphics Arts Technology	5	120	151	127.6	121.0
50.0901	Music, General	60	120	152	125.2	124.0
50.0902	Music History & Apprec	22	120	151	127.4	125.5
50.0903	Music Performance	44	120	155	128.1	126.0
50.0904	Music Composition	31	120	163	128.1	126.0
50.0905	Musicology	2	120	148	134.0	134.0
50.0908	Opera Production	4	122	134	127.3	128.0
50.0913	Jazz Studies	10	120	155	132.9	132.0
50.0995	Music/Music Theory	21	120	142	126.9	126.0
50.0996	Music Technology	1	128	128	128.0	128.0





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CIP	DEGREE TITLE	COUNT OF UNIVERSITIES OFFERING				
		PROGRAM	MINIMUM	MAXIMUM	MEAN	MEDIAN
<b>HEALTH PROFESSIONS</b>						
51.0204	Speech Path & Audiol Disorders	39	120	136	123.9	124.0
51.0301	Community Health Ed	3	124	136	128.0	124.0
51.0305	Human Services	2	121	122	121.5	121.5
51.0602	Dental Hygiene	4	120	132	125.0	124.0
51.0701	Health Services Admin	12	120	134	125.1	124.0
51.0706	Health Information Mgmt	11	120	138	127.3	129.0
51.0807	Physician Assistant	7	120	177	137.1	130.0
51.0808	Veterinary Tech	1	120	120	120.0	120.0
51.0904	Emergency Health Services	1	120	120	120.0	120.0
51.0905	Nuclear Medicine Technology	2	130	133	132.0	132.5
51.0907	Radiologic (Med) Tech	8	120	146	128.5	128.0
51.0908	Respiratory Therapy	10	120	152	135.5	132.5
51.1002	Cytotechnology	4	124	150	136.3	137.5
51.1005	Medical Technology	37	120	162	129.4	128.0
51.1199	Pre-Dental-Pre-Medical-Pre-Vet	7	120	128	125.5	127.0
51.1201	Human Medicine	1	120	120	120.0	120.0
51.1395	Biobehavioral Health	1	125	125	125.0	125.0
51.1401	Clinical Lab Science	1	124	124	124.0	124.0
51.1601	Nursing	51	120	140	127.3	128.0
51.1701	Optometry	1	129	129	129.0	129.0
51.1901	Osteopathic Medicine	1	120	120	120.0	120.0
51.2001	Pharm. Sciences - Four Year	5	120	138	128.4	124.0
51.2001	Pharmacy - Five Year	17	150	188	164.7	161.0
51.2202	Environmental Health	2	120	168	144.0	144.0
51.2207	Public Health Promotion/Fitness	3	128	130	129.0	129.0
51.2305	Music Therapy	9	122	150	134.1	132.0
51.2306	Occupational Therapy	18	120	163	130.4	130.5
51.2307	Orthotics/Prosthetics	1	120	120	120.0	120.0
51.2308	Physical Therapy	19	120	172	137.6	134.0
51.2310	Vocational Rehab Counsel	3	120	135	122.7	120.0
51.2395	Rehabilitative Services	5	127	136	128.8	127.0
51.2401	Vet Med	1	120	120	120.0	120.0
51.2703	Medical Illustration	1	125	125	125.0	125.0
51.2795	Health Science	7	120	136	127.1	128.0

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SEMESTER CREDIT HOURS REQUIRED TO COMPLETE BACCALAUREATE DEGREE**

CIP	DEGREE TITLE	COUNT OF UNIVERSITIES OFFERING				
		PROGRAM	MINIMUM	MAXIMUM	MEAN	MEDIAN
<b>BUSINESS &amp; MANAGEMENT</b>						
52.0101	Business, General	34	120	132	124.4	124.5
52.0201	Busi Admin & Mgmt	44	120	132	124.3	124.5
52.0202	Purchasing/Logistics Mgmt	3	120	128	124.7	126.0
52.0205	Office or Operations Mgmt	5	124	130	128.1	128.0
52.0210	Busi. Oper. & Intrntl Busi	1	148	148	148.0	148.0
52.0301	Accounting	59	120	148	125.4	126.0
52.0310	Acctg & Computer Info Systems	1	126	126	126.0	126.0
52.0601	Economics	37	120	148	125.7	126.0
52.0801	Finance, General	52	120	148	125.6	126.0
52.0802	Actuarial Science	3	124	135	129.0	128.0
52.0805	Insurance & Risk Mgmt	14	120	148	125.4	125.5
52.0901	Hospitality Admin/Mgmt	18	120	133	125.5	128.0
52.0903	Travel & Tourism	2	122	128	125.0	125.0
52.1001	Human Resources Mgmt	15	120	140	126.6	128.0
52.1002	Labor & Industrial Relations	1	124	124	124.0	124.0
52.1101	International Busi. Mgmt	15	120	154	129.1	128.0
52.1201	MIS/Busi Data Proc	21	120	142	127.4	128.0
52.1301	Management Science	24	120	140	125.8	126.0
52.1302	Stats & Quantitative Research	2	128	130	129.0	129.0
52.1401	Business Marketing Mgmt	48	120	148	125.1	125.0
52.1501	Real Estate	17	120	148	126.4	126.0
52.9990	Industrial Distribution	2	128	132	130.0	130.0
52.9995	Transportation Mgmt	10	120	132	127.6	128.0

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