

Estimated Demand for Michigan's College and University Graduates of 1990

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Baker College	Montcalm Community College
Bay De Noc Community College	X Muskegon College of Business
Calvin College	X Muskegon Community College
Central Michigan University	Northern Michigan University
Davenport College of Business Grand Rapids	Northwestern Michigan College
Delta College	Northwood Institute
X Eastern Michigan University	Oakland University
Ferris State University	Saginaw Valley College
Grand Rapids Junior College	University of Detroit
Grand Valley State College	University of Michigan Ann Arbor
Great Lakes Junior College	University of Michigan Dearborn
Henry Ford Community College	X University of Michigan Flint
Jordan College	X Walsh College of Accounting and Business
X Kellogg Community College	Wayne State University
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Lake Superior State College	Western Michigan University

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Recruiting Trends 1989-90, the yearly job market report prepared by Career Development and Placement Services at Michigan State University, summarized surveys from employers that indicated a tight job market for new college graduates in 1990. Retrenchment by major recruiters of college graduates, e.g. automobile and electronics firms, was identified as a major factor influencing this year's job market. As a result, college graduates may have to spread their nets wider during their job searches in order to find suitable employment. This will mean tapping into employers that may not traditionally recruit on college campuses.

To gain some perspective on the job market that goes beyond the on-campus recruiter, a survey of placement and career planning professionals at Michigan's two- and four-year colleges and universities was conducted. Placement staff were asked to rate the job market for academic majors at their respective institutions. In addition to campus interviewing statistics, each evaluator was encouraged to employ a wide variety of sources, including job listings, employer requests for resumes, discussions with employers, responses to follow-ups from recent graduates, and other reliable sources, to form their perceptions of the market.

Participants

Career planning and placement offices at all Michigan two- and four-year campuses were sent a packet of material that contained instructions and surveys for the members of their staff. Professionals representing 38 institutions returned surveys. The institutions assisting in this year's survey are listed on the preceding page.

Survey

The survey contained a list of academic programs that were grouped according to the classification of instructional programs (CIP) codes that the Michigan State Board of Education uses to code programs of similar content. Placement professionals were asked to rate the anticipated labor market for each program. The five-point Likert rating scale ranged from 1 - surplus job market (more college graduates than jobs available) to 5 - excellent job market (more job opportunities than college graduates available). Provision was made for rating programs where graduates typically continued their education at a different academic level. This was particularly appropriate for selected two-year graduates who continued at four-year institutions.

Results

Average ratings for the fifty major CIP groups are reported in Table 1 and the specific programs for each degree level are presented in Tables 2 to 6, respectively. All ratings have been included for completeness; however, readers should exercise care when generalizing from specific ratings where the number of respondents was small. In some cases programs have been rated by only one or two respondents. This may represent all the schools that offer this program; however, schools not responding may also have programs. In the latter case, the ratings may not be representative of the entire university population.

The rating means can be interpreted as follows:

Means	Implication
≥ 4.50	Many more job opportunities than graduates available.
3.51 - 4.49	Slightly more job opportunities than graduates available.
2.51 - 3.50	About as many jobs available as graduates.
1.51 - 2.50	Slightly more graduates than available jobs.
≤ 1.50	Many more graduates than available jobs.

Overall results tend to characterize the 1990 job market as one where the number of graduates equals the number of jobs available. The rating means for the majority of programs fell between 2.51 and 4.00. As one might expect, the business fields (especially accounting, hospitality, and business support programs), technical fields (engineering and technologies), allied health, and health sciences showed rather healthy job markets. Education majors will likely experience a difficult labor market (particularly if they wish to remain in Michigan).

At the master's and doctoral degree levels, the market looks good for most programs. Again, observers report a weakness in the education labor market. An encouraging sign was an improvement in programs such as communications, human ecology, social science, and arts and letters.

Because programs were sorted by major subheadings this year, rather than individually, direct comparison to last year's report is difficult. The 1990 ratings seem to indicate a market that will not be much different from last year's. In fact, programs in communications, selected social science fields, human ecology, and arts and letters actually showed a slight improvement. In business, accounting and hospitality markets remained strong while a weakening appeared for human resources (at the bachelor's degree level). There was no noticeable shift in engineering, even though several of the State's major employers are not hiring as many as they hired last year. Nearly all health related programs showed strong markets, especially for nursing and laboratory technicians.

Since ratings reflect the demand within a specific field of study, graduates in programs that received low ratings need to pursue a comprehensive job search. Students in these fields should consider a wide array of potential job opportunities where their skills can be applied. To pursue these opportunities, graduates need to utilize job search strategies, such as networking, that will permit them the largest degree of flexibility.

Table 1: Summary of Demand for Major CIP Groups by Degree Level

CIP	Program Name	Certificate	Associate	Bachelor	Master	Professional
1	Agribusiness and Agricultural Production	3.00	2.81	2.96	3.26	3.11
2	Agricultural Sciences	3.00	2.70	3.44	3.72	3.60
3	Renewable Natural Resources	2.60	2.06	2.40	2.85	2.90
4	Architecture and Environmental Design	2.00	2.74	3.08	3.79	3.64
5	Area and Ethnic Studies	1.25	1.00	2.00	2.50	NA
6	Business Management	2.59	2.77	3.30	3.70	4.15
7	Business and Office	3.32	3.57	3.80	4.12	4.33
8	Marketing and Distribution	2.95	3.19	3.60	3.76	3.44
9	Communications	1.71	2.22	2.55	2.87	3.38
10	Communication Technologies	2.29	3.29	3.38	4.00	4.00
11	Computer and Information Sciences	2.80	3.69	3.73	3.94	4.42
12	Consumer, Personal, and Miscellaneous Ser	1.00	3.43	4.33	5.00	5.00
13	Education	2.29	1.91	2.46	2.73	3.14
14	Engineering	3.38	3.76	3.88	4.00	4.37
15	Engineering and Engineering Related Tech.	2.46	3.45	4.12	3.89	4.29
16	Foreign Languages	1.75	2.39	2.39	2.59	NA
17	Allied Health	3.08	3.88	4.06	4.45	4.67
18	Health Services	3.60	3.43	4.17	4.48	4.82
19	Home Economics	3.00	2.38	2.55	2.78	2.69
20	Vocational Home Economics	3.17	2.62	2.70	2.94	2.71
21	Industrial Arts	2.00	3.00	2.33	3.00	3.50
22	Law	3.00	4.00	3.00	4.50	NA
23	Letters	1.00	1.57	2.04	1.91	1.97
24	Liberal\General Studies	2.50	2.33	2.46	3.00	3.00
25	Library and Archival Sciences	2.43	3.00	3.44	2.80	NA
26	Life Sciences	1.60	2.45	2.82	3.46	3.88
27	Mathematics	1.67	3.08	3.22	3.50	3.32
28	Military Sciences	4.00	2.50	3.00	3.00	3.00
30	Multi\Interdisciplinary Studies	2.53	3.04	2.81	2.75	NA
31	Parks and Recreation	2.42	2.35	2.43	2.27	2.50
32	Basic Skills	3.50	2.00	2.00	2.00	2.00
34	Health and Related Activities	3.00	2.33	2.75	2.00	2.00
36	Leisure and Recreational Activities	2.67	2.50	2.67	2.00	2.00
38	Philosophy and Religion	1.67	2.31	2.29	1.60	NA
39	Theology	1.50	2.74	2.47	1.86	NA
40	Physical Sciences	1.50	2.35	3.43	3.53	3.53
41	Science Technologies	1.00	3.50	3.33	3.67	3.83
42	Psychology	2.00	1.14	2.11	2.32	4.29
43	Protective Services	3.44	2.75	3.17	2.75	3.33
44	Public Affairs	1.00	2.05	2.79	3.07	2.85
45	Social Sciences	1.33	1.60	2.23	2.44	2.59
46	Construction Trades	3.12	3.38	3.50	4.67	5.00
47	Mechanics and Repairs	2.75	3.70	4.10	NA	NA
48	Precision Production	3.00	3.35	3.00	2.67	3.00
49	Transportation and Material Moving	3.00	3.08	3.33	NA	NA
50	Visual and Performing Arts	1.40	2.25	2.23	2.11	3.00

NA not applicable - no data reported

Means

≥4.50

3.51-4.49

2.51-3.50

1.51-2.50

≤1.50

*

Implication

Many more job opportunities than graduates available.

Slightly more job opportunities than graduates available.

About as many jobs available as graduates.

Slightly more graduates than available jobs.

Many more graduates than available jobs.

Indicates same number of respondents (or more) stated graduates typically go on to next degree.

Table 2: Demand Ratings for Specific Programs at the Certificate Level According to CIP Numbers

CIP	Average	Respondents	CIP	Average	Respondents
1.00 AGRI BUSINESS & AGRICULTURE PRODUCTION			6.00 BUSINESS AND MANAGEMENT		
1.01 AGRI BUSINESS & MANAGEMENT	3.00	1*	6.17 REAL ESTATE	2.75	4
1.02 AGRICULTURAL MECHANICS	3.00	1*	6.18 SMALL BUSINESS MANAGEMENT AND OWNERSHIP	2.33	6
1.03 AGRICULTURAL PRODUCTION	3.00	2*	6.19 TAXATION	3.00	1
1.05 AGRI SERVICES & SUPPLIES	3.00	1*	6.20 TRADE & INDUSTRIAL SUPV & MANAGEMENT	2.50	4
1.06 HORTICULTURE AND LANDSCAPING	4.00	3	6.99 BUSINESS AND MANAGEMENT (BUS. COMM, LAW, ADMIN)	2.50	4
1.07 PACKAGING	1.00	1*	7.00 BUSINESS AND OFFICE		
1.08 AGRICULTURAL AND EXTENSION EDUCATION	1.00	1*	7.01 ACCOUNTING, BOOKKEEPING & RELATED PROGRAMS	3.11	9
1.99 AGRIBUSINESS & AGRIPRO	2.67	3	7.02 BANKING AND RELATED FINANCIAL PROGRAMS	3.00	4
2.01 AGRICULTURAL SCIENCES (GENERAL)	3.00	1*	7.03 BUSINESS DATA PROCESSING & RELATED PROGRAMS	2.88	8
2.02 ANIMAL SCIENCES	2.00	2*	7.04 OFFICE SUPERVISION AND MANAGEMENT	2.62	8
2.03 FOOD SCIENCES	3.50	2*	7.06 SECRETARIAL AND RELATED PROGRAMS	3.90	10
2.04 PLANT SCIENCES	3.00	2*	7.07 TYPING, GENERAL OFFICE	3.73	11
2.05 SOIL SCIENCES	3.00	1*	7.99 BUSINESS AND OFFICE	3.57	7
3.00 RENEWABLE NATURAL RESOURCES			8.00 MARKETING AND DISTRIBUTION		
3.01 RNR (RESOURCE DEVELOPMENT, RESOURCES POLICY)	2.00	2*	8.01 APPAREL AND ACCESSORIES MARKETING	3.67	3
3.02 CONSERVATION & REGULATION	1.00	1*	8.02 BUSINESS AND PERSONAL SERVICES MARKETING	3.25	4
3.03 FISHING AND FISHERIES	3.00	1*	8.04 FINANCIAL SERVICES MARKETING	2.25	4
3.04 FORESTRY PRODUCTION & PROCESSING	3.00	1*	8.07 GENERAL MARKETING	3.50	4
3.05 FORESTRY AND RELATED SCIENCES	3.00	1*	8.08 HOME AND OFFICE PRODUCTS MARKETING	2.25	4
3.06 WILDLIFE MANAGEMENT	1.00	1*	8.09 HOSPITALITY AND RECREATION MARKETING	3.75	4
3.99 RNR (OUTDOOR REC., ECOLOGY, N.R. ECONOMICS)	3.00	1*	8.10 INSURANCE MARKETING	2.75	4
4.00 ARCHITECTURE AND ENVIRONMENTAL DESIGN			8.11 TRANSPORTATION AND TRAVEL MARKETING	2.80	5
4.01 ARCHITECTURE AND ENVIRONMENTAL DESIGN (GENERAL)	2.60	5	8.12 VEHICLES AND PETROLEUM MARKETING	2.50	2
4.02 ARCHITECTURE	2.00	2*	8.99 MARKETING AND DISTRIBUTION (OTHER)	2.75	4
4.03 CITY, COMMUNITY, AND REGIONAL PLANNING	3.00	1*	9.00 COMMUNICATIONS		
4.04 ENVIRONMENTAL DESIGN	2.50	4	9.01 COMMUNICATIONS (SPEECH, COMM ARTS, GENERAL)	1.25	4
4.05 INTERIOR DESIGN	1.67	3	9.02 ADVERTISING	2.00	6
4.06 LANDSCAPE ARCHITECTURE	2.00	1*	9.04 JOURNALISM (MASS COMMUNICATIONS)	1.50	6
5.00 AREA AND ETHNIC STUDIES			9.05 PUBLIC RELATIONS	1.71	7
5.01 AREA STUDIES	1.50	2*	9.99 COMMUNICATIONS (ENVIRONMENTAL, WRITTEN, SPECIAL)	2.00	5
5.02 ETHNIC STUDIES	1.00	2*	10.00 COMMUNICATION TECHNOLOGIES		
6.01 BUSINESS AND MANAGEMENT (GENERAL)	2.00	4	10.01 COMMUNICATION TECHNOLOGIES	2.29	7
6.02 ACCOUNTING	2.60	5	11.00 COMPUTER AND INFORMATION SCIENCES (GENERAL)		
6.03 BANKING AND FINANCE	2.50	2	11.01 COMPUTER & INFORMATION SCIENCES (GENERAL)	2.67	9
6.04 BUSINESS ADMINISTRATION & MANAGEMENT	2.33	3	11.02 COMPUTER PROGRAMING	2.88	8
6.05 BUSINESS ECONOMICS	2.50	12	11.03 DATA PROCESSING	2.78	9
6.06 HUMAN RESOURCES DEVELOPMENT	3.00	2*	11.04 INFORMATION SCIENCES AND SYSTEMS	2.86	7
6.07 INSTITUTIONAL MANAGEMENT	3.50	2	11.05 SYSTEMS ANALYSIS	2.71	7
6.08 INSURANCE AND RISK MANAGEMENT	1.00	1	11.99 COMPUTER AND INFORMATION SCIENCES (SPECIAL PGMS)	3.00	4
6.09 INTERNATIONAL BUSINESS MANAGEMENT	3.00	1*	12.00 CONSUMER, PERSONAL, AND MISC. SERVICES		
6.10 INVESTMENTS AND SECURITIES	4.00	1*	12.03 FUNERAL SERVICES	1.00	1*
6.11 LABOR/INDUSTRIAL RELATIONS	2.33	3	12.04 PERSONAL SERVICES	3.50	4
6.12 MANAGEMENT INFORMATION SYSTEMS	3.33	3	13.00 EDUCATION		
6.13 MANAGEMENT SCIENCE	3.00	1	13.01 EDUCATION (GENERAL)	2.25	4*
6.14 MARKETING MANAGEMENT AND RESEARCH	2.75	4*	13.02 BILINGUAL/BICULTURAL EDUCATION	3.50	2*
6.15 ORGANIZATIONAL BEHAVIOR	3.00	1*	13.03 CURRICULUM AND INSTRUCTION	2.50	2*
6.16 PERSONNEL MANAGEMENT	2.25	4	13.04 EDUCATION ADMINISTRATION	2.50	2*
			13.05 EDUCATIONAL MEDIA	1.50	2*
			13.06 EVALUATION AND RESEARCH	2.50	2*

Means

≥4.50
 3.51-4.49
 2.51-3.50
 1.51-2.50
 ≤1.50

Implication

Many more job opportunities than graduates available.
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 About as many jobs available as graduates.
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 Indicates same number of respondents (or more) stated graduates typically go on to next degree level.

Table 2: (Continued) Demand Ratings for Specific Programs at the Certificate Level According to CIP Number

CIP	Average	Respondents	CIP	Average	Respondents
13.00 EDUCATION			14.00 ENGINEERING		
13.08 SCHOOL PSYCHOLOGY	2.00	1*	14.20 METALLURGICAL ENGINEERING	2.00	1
13.09 SOCIAL FOUNDATIONS	2.00	1*	14.21 MINING AND MINERAL ENGINEERING	2.67	3
13.10 SPECIAL EDUCATION	3.50	2*	14.22 NAVAL ARCHITECTURE & MARINE ENGINEERING	3.50	4
13.11 STUDENT COUNSELING & PERSONNEL SERVICES	2.00	1*	14.23 NUCLEAR ENGINEERING	3.33	3
13.12 TEACHER EDUCATION, GENERAL PROGRAMS	2.00	1*	14.25 PETROLEUM ENGINEERING	2.75	4
13.1201 ADULT AND CONTINUING EDUCATION	2.50	2*	14.27 SYSTEMS ENGINEERING	3.67	3
13.1202 ELEMENTARY EDUCATION	2.00	3*	14.99 ENGINEERING (OTHER: PLASTICS, CAD, ENG MGT)	3.33	3*
13.1203 JUNIOR HIGH EDUCATION	2.00	2*	15.00 ENGINEERING AND RELATED TECHNOLOGIES		
13.1204 EARLY CHILDHOOD/PRE-ELEMENTARY	2.33	3*	15.01 ARCHITECTURAL TECHNOLOGIES	1.50	2*
13.1205 SENIOR HIGH EDUCATION	2.00	2*	15.02 CIVIL TECHNOLOGIES	2.80	5
13.1300 TEACHER EDUC., SPEC. SUBJECT AREAS	1.00	2*	15.03 ELECTRICAL AND ELECTRONIC TECHNOLOGIES	2.43	7*
13.1301 AGRICULTURAL EDUCATION	1.00	1*	15.04 ELECTROMECHANICAL, INSTRUMENT AND MAINTENANCE TECHNOLOGIES		
13.1302 ART EDUCATION	1.00	1*	15.05 ENVIRONMENTAL CONTROL TECHNOLOGIES	2.40	5
13.1303 BUSINESS EDUCATION	2.50	2*	15.06 INDUSTRIAL PRODUCTION TECHNOLOGIES	2.00	4
13.1304 DRIVER AND SAFETY EDUCATION	1.00	1*	15.07 QUALITY CONTROL & SAFETY TECHNOLOGIES	2.75	4
13.1305 ENGLISH	2.00	1*	15.08 MECHANICAL & RELATED TECHNOLOGIES	2.00	2
13.1306 FOREIGN LANGUAGES	3.00	1*	15.09 MINING AND PETROLEUM TECHNOLOGIES	2.83	6
13.1307 HEALTH EDUCATION	3.00	1*	15.99 ENGINEERING AND RELATED TECHNOLOGIES	2.60	5
13.1308 HOME ECONOMICS	2.00	1*	16.00 FOREIGN LANGUAGES	2.50	4
13.1309 INDUSTRIAL ARTS	2.00	1*	16.01 FOREIGN LANGUAGES, MULTIPLE EMPHASIS	2.50	4
13.1310 MARKETING ADM DISTRIBUTION	2.00	1*	16.03 ASIATIC LANGUAGES	2.00	2
13.1311 MATHEMATICS	3.00	1*	16.04 BALTO-SLAVIC LANGUAGES	1.50	2*
13.1312 MUSIC	2.00	1*	16.05 GERMANIC LANGUAGES	1.50	2
13.1313 PHYSICAL EDUCATION	1.00	1*	16.06 GREEK	1.50	2
13.1314 SCIENCE EDUCATION	3.00	1*	16.08 IRANIAN LANGUAGES	1.50	2
13.1315 READING	2.00	1*	16.09 ITALIC LANGUAGES	1.50	2
13.1316 SCIENCE EDUCATION	3.00	1*	16.11 SEMETIC LANGUAGES	1.50	2
13.1317 SOCIAL SCIENCE/STUDIES	3.00	1*	16.99 FOREIGN LANGUAGES ,OTHER	1.50	2
13.1319 TECHNICAL EDUCATION	3.00	1*	17.00 ALLIED HEALTH		
13.1320 TRADE AND INDUSTRIAL	4.00	1*	17.01 DENTAL SERVICES	3.00	2
13.14 TEACH ENG AS A 2ND LANG/FOREIGN LANG	1.50	2*	17.02 DIAGNOSTIC AND TREATMENT SERVICES	3.00	5
13.99 EDUCATION, OTHER			17.03 MEDICAL LABORATORY TECHNOLOGIES	2.67	3
14.00 ENGINEERING			17.04 MENTAL HEALTH/HUMAN SERVICES	2.25	4
14.01 ENGINEERING ,GENERAL	2.00	1*	17.05 MISCELLANEOUS ALLIED HEALTH SERVICES	3.14	7
14.02 AEROSPACE/AERONAUTICAL/ASTRONAUTICAL	3.67	3	17.06 NURSING-RELATED SERVICES	3.86	7
14.03 AGRICULTURAL ENGINEERING	3.00	4	17.07 OPHTHALMIC SERVICES	4.00	1
14.05 BIOENGINEERING & BIOMEDICAL ENGINEERING	3.67	3	17.08 REHABILITATION SERVICES	3.20	5
14.07 CHEMICAL ENGINEERING	4.00	1	17.99 ALLIED HEALTH ,OTHER	2.33	3
14.08 CIVIL ENGINEERING	4.00	1	18.00 HEALTH SCIENCES		
14.09 COMPUTER ENGINEERING	3.50	2	18.01 AUDIOLOGY AND SPEECH PATHOLOGY	3.00	2*
14.10 ELECTRICAL/ELECTRONICS/COMMUNICATIONS	4.50	2	18.02 BASIC CLINICAL HEALTH SCIENCES	3.00	1*
14.11 ENGINEERING MECHANICS	4.00	4	18.03 CHIROPRACTIC	2.50	2*
14.12 ENGINEERING PHYSICS	3.75	4	18.04 DENTISTRY	3.00	2*
14.13 ENGINEERING SCIENCES	4.00	3	18.06 EPIDEMIOLOGY	3.00	2*
14.14 ENVIRONMENTAL HEALTH ENGINEERING	4.00	1	18.07 HEALTH CARE ADMINISTRATION	1.67	3*
14.15 GEOLOGICAL ENGINEERING	3.00	3	18.09 MEDICAL LABORATORY	3.40	5
14.17 INDUSTRIAL ENGINEERING	3.00	2	18.10 MEDICINE	5.00	1*
14.18 MATERIALS ENGINEERING	3.67	3*			
14.19 MECHANICAL ENGINEERING	3.00	2*			

Means

≥4.50
 3.51-4.49
 2.51-3.50
 1.51-2.50
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Implication

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Table 2: (Continued) Demand Ratings for Specific Programs at the Certificate Level According to CIP Numbers

CIP	Average	Respondents	CIP	Average	Respondents
18.00 HEALTH SCIENCES			26.00 LIFE SCIENCES		
18.11 NURSING	4.00	5	26.04 CELL AND MOLECULAR BIOLOGY	2.67	3*
18.12 OPTOMETRY	3.50	2*	26.05 MICROBIOLOGY	2.67	3*
18.13 OSTEOPATHIC MEDICINE	3.50	2*	26.06 MISC. SPECIALIZED AREAS, LIFES SCIENCES	2.50	2
18.14 PHARMACY	1.00	1*	26.07 ZOOLOGY	2.00	2*
18.16 POPULATION AND FAMILY PLANNING	2.50	2*	26.99 LIFE SCIENCES (OTHER)	2.50	2*
18.24 VETERINARY MEDICINE	4.00	1*	27.00 MATHEMATICS		
18.99 HEALTH SCIENCES, OTHER	3.00	1*	27.01 MATHEMATICS (GENERAL)	3.00	1*
19.01 HOME ECONOMICS (GENERAL)	2.33	3	27.02 ACTUARIAL SCIENCES	3.50	2*
19.02 BUSINESS HOME ECONOMICS	3.00	1	27.03 APPLIED MATHEMATICS	3.00	2
19.03 FAMILY AND COMMUNITY SERVICES	3.00	1	27.04 PURE MATHEMATICS	2.50	2*
19.04 FAMILY/CONSUMER RESOURCE MANAGEMENT	3.00	1	27.05 STATISTICS	1.00	1*
19.05 FOOD SCIENCES AND HUMAN NUTRITION	3.00	1	27.99 MATHEMATICS	1.00	1*
19.06 HUMAN ENVIRONMENT AND HOUSING	3.00	1	28.00 MILITARY SCIENCES		
19.07 INDIVIDUAL AND FAMILY DEVELOPMENT	3.00	1	28.03 MILITARY SCIENCES (ARMY)	4.00	1
19.08 INTERNATIONAL/COMPARATIVE HOME ECON.	2.00	2	30.00 MULTI/INTERDISCIPLINARY STUDIES		
19.09 TEXTILES AND CLOTHING	2.00	2	30.01 BIOLOGICAL AND PHYSICAL SCIENCES	3.00	2*
19.99 HOME ECONOMICS (OTHER)	1.50	2*	30.03 ENGINEERING AND OTHER DISCIPLINES	4.00	4
20.00 VOCATIONAL HOME ECONOMICS	1.50	2*	30.04 HUMANITIES AND SOCIAL SCIENCES	2.25	4*
20.01 CONSUMER AND HOMEMAKING HOME ECONOMICS	4.00	1*	30.05 PEACE STUDIES	2.00	2*
20.02 CHILD CARE & GUIDANCE MGMT. & SERVICES	3.00	2	30.06 SYSTEMS SCIENCE	2.00	2
20.03 CLOTHING, APPAREL, AND TEXTILES MGMT	2.00	1	30.07 WOMEN'S STUDIES	2.00	3
20.04 FOOD PRODUCTION, MGMT, & SERVICES	4.00	1*	30.99 MULTI/INTERDISCIPLINARY STUDIES	1.50	2
20.05 HOME FURNISHING AND EQUIPMENT MGMT	2.00	2	31.00 PARKS AND RECREATION		
20.06 INSTITUTIONAL, HOME MGMT & SERVICES	3.00	1*	31.01 PARKS AND RECREATION (GENERAL)	2.67	3
21.00 INDUSTRIAL ARTS			31.02 OUTDOOR RECREATION	2.33	3
21.01 INDUSTRIAL ARTS	2.00	1	31.03 PARKS AND RECREATIONAL MANAGEMENT	2.33	3
22.00 LAW			31.04 WATER RESOURCES	3.00	1*
22.01 LAW	3.00	3*	31.99 PARKS AND RECREATION	2.00	2
23.00 LETTERS			32.00 BASIC SKILLS		
23.01 ENGLISH (GENERAL)	1.00	1*	32.01 BASIC SKILLS	3.50	2
23.02 CLASSICS	1.50	2*	34.00 HEALTH RELATED ACTIVITIES		
23.03 COMPARATIVE LITERATURE	1.50	2*	34.01 HEALTH RELATED ACTIVITIES	3.00	1*
23.04 COMPOSITION	1.50	2	36.00 LEISURE AND RECREATION ACTIVITIES		
23.05 CREATIVE WRITING	2.00	2	36.01 LEISURE AND RECREATIONAL ACTIVITIES	2.67	3
23.06 LINGUISTICS	1.50	2*	38.00 PHILOSOPHY AND RELIGION		
23.07 LITERATURE, AMERICAN	1.50	2	38.01 PHILOSOPHY	1.67	3*
23.08 LITERATURE, ENGLISH	1.50	2	38.02 RELIGION	1.67	3*
23.10 SPEECH, DEBATE, AND FORENSICS	1.50	2	38.99 PHILOSOPHY AND RELIGION	1.67	3*
23.99 LETTERS, OTHER	1.50	2	39.00 THEOLOGY		
24.00 LIBERAL/GENERAL STUDIES			39.01 BIBLICAL LANGUAGES	1.50	2
24.01 LIBERAL/GENERAL STUDIES	2.50	2*	39.02 BIBLE STUDIES	1.50	2
25.00 LIBRARY AND ARCHIVAL SCIENCES			39.03 MISSIONARY STUDIES	1.50	2
25.01 LIBRARY & ARCHIVAL SCIENCES (GENERAL)	2.50	2	39.04 RELIGIOUS EDUCATION	1.50	2
25.04 LIBRARY SCIENCES	2.50	2	39.05 RELIGIOUS MUSIC	1.50	2
25.05 MUSEOLOGY	2.33	3	39.06 THEOLOGICAL STUDIES	1.50	2
26.00 LIFE SCIENCES			39.99 THEOLOGY	1.50	2
26.01 BIOLOGY (GENERAL)	1.50	2*	40.00 PHYSICAL SCIENCE		
26.02 BIOCHEMISTRY AND BIOPHYSICS	1.50	2*	40.01 PHYSICAL SCIENCES (GENERAL)	2.00	2*
26.03 BOTANY	2.00	1*	40.02 ASTRONOMY	1.00	1*
			40.03 ASTROPHYSICS	1.50	2*

Means

≥4.50
 3.51-4.49
 2.51-3.50
 1.51-2.50
 ≤1.50

Implication

Many more job opportunities than graduates available.
 Slightly more job opportunities than graduates available.
 About as many jobs available as graduates.
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 Indicates same number of respondents (or more) stated graduates typically go on to next degree.

Table 2: (Continued) Demand Ratings for Specific Programs at the Certificate Level According to CIP Number

CIP	Average	Respondents	CIP	Average	Respondents
40.00 PHYSICAL SCIENCE			45.00 SOCIAL SCIENCES		
40.04 ATMOSPHERIC SCIENCES & METEOROLOGY			45.08 HISTORY	1.33	3*
40.05 CHEMISTRY	2.00	1*	45.09 INTERNATIONAL RELATIONS	2.00	3*
40.06 GEOLOGICAL SCIENCES	1.00	1*	45.10 POLITICAL SCIENCE AND GOVERNMENT	2.00	3*
40.07 MISCELLANEOUS PHYSICAL SCIENCES	2.67	3	45.11 SOCIOLOGY	1.33	3*
40.08 PHYSICS	2.00	1*	45.12 URBAN STUDIES	1.50	2*
40.89 APPLIED PHYSICS	3.00	1*	45.99 SOCIAL SCIENCE (MI. STUDIES, POLITICAL ECONOMY)	1.00	1*
40.99 PHYSICAL SCIENCES (HEALTH SCI., MED. PHYSICS)	2.50	2*	46.00 CONSTRUCTION TRADES		
41.00 SCIENCE TECHNOLOGIES			46.02 CARPENTRY	3.00	2
41.01 BIOLOGICAL TECHNOLOGIES	1.00	1	46.03 ELECTRICAL & POWER TRANS. INSTALLATION	4.00	1
41.03 PHYSICAL SCIENCE TECHNOLOGIES	1.00	1	46.05 PLUMBING, PIPEFITTING & STEAMFITTING	2.50	2
41.99 SCIENCE TECHNOLOGIES	3.00	2	46.99 CONSTRUCTION TRADES	3.33	3
42.00 PSYCHOLOGY			47.00 MECHANICS AND REPAIRERS		
42.01 PSYCHOLOGY (GENERAL)	2.00	1*	47.01 ELECTRICAL/ELECTRONICS EQUIP. REPAIR	2.50	6
42.02 CLINICAL PSYCHOLOGY	1.00	2*	47.02 HEAT/AIR CONDITIONING/REFRIGERATION MECH.	3.25	4
42.04 COMMUNITY PSYCHOLOGY	1.00	2*	47.03 INDUSTRIAL EQUIPMENT MAINTENANCE & REPAIR	2.33	3
42.06 COUNSELING PSYCHOLOGY	1.00	2*	47.06 VEHICLE & MOBILE EQUIP MECH & REPAIRERS	3.25	4
42.07 DEVELOPMENTAL PSYCHOLOGY	1.00	2*	47.99 MECHANICS AND REPAIRERS	2.33	3
42.08 EXPERIMENTAL PSYCHOLOGY	1.00	2*	48.00 PRECISION PRODUCTION		
42.09 INDUSTRIAL & ORGANIZATIONAL PSYCHOLOGY	1.00	2*	48.01 DRAFTING	3.50	4
42.11 PHYSIOLOGICAL PSYCHOLOGY	1.00	2*	48.02 GRAPHIC AND PRINTING COMMUNICATIONS	2.50	2
42.16 SOCIAL PSYCHOLOGY	1.50	2*	48.04 PRECISION FOOD PRODUCTION	3.00	6
42.99 PSYCHOLOGY (HEALTH, SOCIAL BEHAVIORAL)	1.50	2*	48.05 PRECISION METAL WORK	2.33	3
43.00 PROTECTIVE SERVICES			48.06 PRECISION WORK, ASSORTED MATERIALS	3.33	6
43.01 CRIMINAL JUSTICE	3.57	7*	48.07 WOODWORKING	4.00	1
43.02 FIRE PROTECTION	3.00	2	49.00 TRANSPORTATION AND MATERIAL MOVING		
44.00 PUBLIC AFFAIRS			49.01 AIR TRANSPORTATION	3.00	1
44.01 PUBLIC AFFAIRS (GENERAL)	2.50	2	49.02 VEHICLE AND EQUIPMENT OPERATION	3.00	1
44.02 COMMUNITY SERVICES	2.00	2	49.03 WATER TRANSPORTATION	2.60	5
44.03 INTERNATIONAL PUBLIC SERVICE	1.50	2	49.99 TRANSPORTATION & MATERIAL MOVING	3.00	1
44.04 PUBLIC ADMINISTRATION	2.00	3	50.00 VISUAL AND PERFORMING ARTS		
44.05 PUBLIC POLICY STUDIES	1.50	2*	50.01 VISUAL AND PERFORMING ARTS (GENERAL)	1.00	1*
44.07 SOCIAL WORK	1.00	1*	50.02 CRAFTS	1.60	5
44.99 PUBLIC AFFAIRS (MANUAL COMM., PUB. ADM. TECH)	2.00	3	50.03 DANCE	1.80	5
45.00 SOCIAL SCIENCES			50.04 DESIGN	2.25	4
45.01 SOCIAL SCIENCES (GENERAL)	1.50	2*	50.05 DRAMATIC ARTS	2.00	4
45.02 ANTHROPOLOGY	1.00	2*	50.06 FILM ARTS (GENERAL)	2.00	4
45.03 ARCHEOLOGY	1.50	2	50.07 FINE ARTS	1.00	1
45.04 CRIMINOLOGY	2.00	1*	50.08 GRAPHIC ART TECHNOLOGY	1.67	3
45.06 ECONOMICS	1.00	1*	50.09 MUSIC	2.17	6
45.07 GEOGRAPHY	1.00	2	50.99 VISUAL & PERFORMING ARTS	2.43	7

Means

≥4.50
3.51-4.49
2.51-3.50
1.51-2.50
≤1.50

Implication

Many more job opportunities than graduates available.
Slightly more job opportunities than graduates available.
About as many jobs available as graduates.
Slightly more graduates than available jobs.
Many more graduates than available jobs.
Indicates same number of respondents (or more) stated graduates typically go on to next degree.

Table 3: Demand Ratings for Specific Programs at the Associate Level According to CIP Numbers

CIP	Average	Respondents	CIP	Average	Respondents
1.00 AGRI BUSINESS & AGRICULTURE PRODUCTION			6.00 BUSINESS AND MANAGEMENT		
1.01 AGRI BUSINESS & MANAGEMENT	3.00	5	6.17 REAL ESTATE	3.50	8
1.02 AGRICULTURAL MECHANICS	2.33	3	6.18 SMALL BUSINESS MANAGEMENT AND OWNERSHIP	2.73	11
1.03 AGRICULTURAL PRODUCTION	2.67	3	6.19 TAXATION	2.86	7
1.05 AGRI SERVICES & SUPPLIES	3.00	3	6.20 TRADE & INDUSTRIAL SUPV & MANAGEMENT	2.50	6
1.06 HORTICULTURE AND LANDSCAPING	3.50	2*	6.99 BUSINESS AND MANAGEMENT (BUS. COMM, LAW, ADMIN)	2.22	9
1.07 PACKAGING	2.67	3	7.00 BUSINESS AND OFFICE		
1.08 AGRICULTURAL AND EXTENSION EDUCATION	3.33	3	7.01 ACCOUNTING, BOOKKEEPING & RELATED PROGRAMS	3.61	18
1.99 AGRIBUSINESS & AGRIPRO	3.50	2*	7.02 BANKING AND RELATED FINANCIAL PROGRAMS	2.77	13
2.00 AGRICULTURAL SCIENCES			7.03 BUSINESS DATA PROCESSING & RELATED PROGRAMS	3.38	16
2.01 AGRICULTURAL SCIENCES (GENERAL)	2.50	2*	7.04 OFFICE SUPERVISION AND MANAGEMENT	3.26	19
2.02 ANIMAL SCIENCES	3.25	4	7.06 SECRETARIAL AND RELATED PROGRAMS	4.11	19
2.03 FOOD SCIENCES	4.25	4	7.07 TYPING, GENERAL OFFICE	3.87	15
2.04 PLANT SCIENCES	3.25	4	7.99 BUSINESS AND OFFICE	3.80	15
2.05 SOIL SCIENCES	2.50	2*	8.00 MARKETING AND DISTRIBUTION		
3.00 RENEWABLE NATURAL RESOURCES			8.01 APPAREL AND ACCESSORIES MARKETING	3.45	11
3.01 RNR (RESOURCE DEVELOPMENT, RESOURCES POLICY)	2.67	9	8.02 BUSINESS AND PERSONAL SERVICES MARKETING	3.11	9
3.02 CONSERVATION & REGULATION	2.00	4	8.04 FINANCIAL SERVICES MARKETING	2.90	10
3.03 FISHING AND FISHERIES	2.33	3	8.07 GENERAL MARKETING	3.77	13
3.04 FORESTRY PRODUCTION & PROCESSING	2.00	2*	8.08 HOME AND OFFICE PRODUCTS MARKETING	3.12	8
3.05 FORESTRY AND RELATED SCIENCES	2.33	3	8.09 HOSPITALITY AND RECREATION MARKETING	3.62	8
3.06 WILDLIFE MANAGEMENT	1.83	6	8.10 INSURANCE MARKETING	3.44	9
3.99 RNR (OUTDOOR REC., ECOLOGY, N.R. ECONOMICS)	2.00	3	8.11 TRANSPORTATION AND TRAVEL MARKETING	2.73	11
4.00 ARCHITECTURE AND ENVIRONMENTAL DESIGN			8.12 VEHICLES AND PETROLEUM MARKETING	3.00	6
4.01 ARCHITECTURE & ENVIRONMENTAL DESIGN (GENERAL)			8.99 MARKETING AND DISTRIBUTION (OTHER)	2.50	8
4.02 ARCHITECTURE	3.20	5	9.00 COMMUNICATIONS		
4.03 CITY, COMMUNITY, AND REGIONAL PLANNING	3.14	7	9.01 COMMUNICATIONS (SPEECH, COMM ARTS, GENERAL)	2.00	7
4.04 ENVIRONMENTAL DESIGN	2.80	5	9.02 ADVERTISING	2.50	8
4.05 INTERIOR DESIGN	3.50	4	9.04 JOURNALISM (MASS COMMUNICATIONS)	2.14	7
4.06 LANDSCAPE ARCHITECTURE	2.44	9	9.05 PUBLIC RELATIONS	2.00	6
5.00 AREA AND ETHNIC STUDIES	3.00	5	9.99 COMMUNICATIONS (ENVIRONMENTAL, WRITTEN, SPECIAL)	2.50	4
5.01 AREA STUDIES	1.00	3	10.00 COMMUNICATION TECHNOLOGIES		
5.02 ETHNIC STUDIES	1.00	3	10.01 COMMUNICATION TECHNOLOGIES	3.29	7
6.00 BUSINESS AND MANAGEMENT			10.02 COMPUTER AND INFORMATION SCIENCES		
6.01 BUSINESS AND MANAGEMENT (GENERAL)	2.64	22	11.00 COMPUTER AND INFORMATION SCIENCES (GENERAL)	3.64	14
6.02 ACCOUNTING	3.27	22	11.01 COMPUTER & INFORMATION SCIENCES	3.57	14
6.03 BANKING AND FINANCE	2.76	21	11.02 COMPUTER PROGRAMING	3.56	18
6.04 BUSINESS ADMINISTRATION & MANAGEMENT	2.63	19	11.03 DATA PROCESSING	3.79	14
6.05 BUSINESS ECONOMICS	3.00	16	11.04 INFORMATION SCIENCES AND SYSTEMS	3.75	12
6.06 HUMAN RESOURCES DEVELOPMENT	2.56	16	11.05 SYSTEMS ANALYSIS	4.00	8
6.07 INSTITUTIONAL MANAGEMENT	3.59	17	12.00 CONSUMER, PERSONAL, AND MISC. SERVICES		
6.08 INSURANCE AND RISK MANAGEMENT	3.30	10	12.03 FUNERAL SERVICES	3.33	3
6.09 INTERNATIONAL BUSINESS MANAGEMENT	2.40	5	12.04 PERSONAL SERVICES	5.00	1
6.10 INVESTMENTS AND SECURITIES	4.00	5	13.00 EDUCATION		
6.11 LABOR/INDUSTRIAL RELATIONS	2.14	7	13.01 EDUCATION (GENERAL)	1.50	4*
6.12 MANAGEMENT INFORMATION SYSTEMS	3.17	6	13.02 BILINGUAL/BICULTURAL EDUCATION	3.00	4
6.13 MANAGEMENT SCIENCE	2.56	9	13.03 CURRICULUM AND INSTRUCTION	2.00	2*
6.14 MARKETING MANAGEMENT AND RESEARCH	2.50	12	13.04 EDUCATION ADMINISTRATION	1.50	2*
6.15 ORGANIZATIONAL BEHAVIOR	2.00	5	13.05 EDUCATIONAL MEDIA	2.00	2*
6.16 PERSONNEL MANAGEMENT	1.56	9	13.06 EVALUATION AND RESEARCH	2.50	2*

Means

>4.50
 3.51-4.49
 2.51-3.50
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 ≤1.50

Implication

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CIP	Average	Respondents	CIP	Average	Respondents
13.00 EDUCATION			14.00 ENGINEERING		
13.08 SCHOOL PSYCHOLOGY	2.00	2*	14.20 METALLURGICAL ENGINEERING	3.33	3
13.09 SOCIAL FOUNDATIONS	1.50	2*	14.21 MINING AND MINERAL ENGINEERING	3.50	2
13.10 SPECIAL EDUCATION	3.00	4	14.22 NAVAL ARCHITECTURE & MARINE ENGINEERING	3.67	3
13.11 STUDENT COUNSELING & PERSONNEL SERVICES	2.00	3	14.23 NUCLEAR ENGINEERING	3.75	4
13.12 TEACHER EDUCATION, GENERAL PROGRAMS	2.00	3	14.25 PETROLEUM ENGINEERING	3.67	3
13.1201 ADULT AND CONTINUING EDUCATION	2.33	3*	14.27 SYSTEMS ENGINEERING	4.20	5
13.1202 ELEMENTARY EDUCATION	1.50	4*	14.99 ENGINEERING (OTHER: PLASTICS, CAD, ENG MGT)	4.29	7
13.1203 JUNIOR HIGH EDUCATION	1.33	3*			
13.1204 EARLY CHILDHOOD/PRE-ELEMENTARY	1.33	4*	15.00 ENGINEERING AND RELATED TECHNOLOGIES		
13.1205 SENIOR HIGH EDUCATION	1.33	3*	15.01 ARCHITECTURAL TECHNOLOGIES	3.14	7
13.1300 TEACHER EDUC, SPEC. SUBJECT AREAS	NA		15.02 CIVIL TECHNOLOGIES	3.58	12
13.1301 AGRICULTURAL EDUCATION	2.00	2*	15.03 ELECTRICAL AND ELECTRONIC TECHNOLOGIES	3.31	16
13.1302 ART EDUCATION	1.50	2*	15.04 ELECTROMECHANICAL, INSTRUMENT AND MAINTENANCE TECHNOLOGIES	3.70	10
13.1303 BUSINESS EDUCATION	2.33	3	15.05 ENVIRONMENTAL CONTROL TECHNOLOGIES	3.80	10
13.1304 DRIVER AND SAFETY EDUCATION	1.50	2*	15.06 INDUSTRIAL PRODUCTION TECHNOLOGIES	3.00	9
13.1305 ENGLISH	1.00	2*	15.07 QUALITY CONTROL & SAFETY TECHNOLOGIES	3.78	9
13.1306 FOREIGN LANGUAGES	2.00	2*	15.08 MECHANICAL & RELATED TECHNOLOGIES	3.33	12
13.1307 HEALTH EDUCATION	1.50	2*	15.09 MINING AND PETROLEUM TECHNOLOGIES	3.33	3
13.1308 HOME ECONOMICS	1.50	2*	15.99 ENGINEERING AND RELATED TECHNOLOGIES	4.00	7
13.1309 INDUSTRIAL ARTS	2.00	2*	16.00 FOREIGN LANGUAGES		
13.1310 MARKETING ADM DISTRIBUTION	1.50	2*	16.01 FOREIGN LANGUAGES, MULTIPLE EMPHASIS	2.62	8
13.1311 MATHEMATICS	2.67	3*	16.03 ASIATIC LANGUAGES	3.00	6
13.1312 MUSIC	1.67	3*	16.04 BALTO-SLAVIC LANGUAGES	2.60	5
13.1314 PHYSICAL EDUCATION	1.67	3*	16.05 GERMANIC LANGUAGES	2.11	9
13.1315 READING	2.00	2*	16.06 GREEK	1.50	4
13.1316 SCIENCE EDUCATION	2.50	2*	16.08 IRANIAN LANGUAGES	2.80	5
13.1317 SOCIAL SCIENCE/STUDIES	1.50	2*	16.09 ITALIC LANGUAGES	2.00	2
13.1319 TECHNICAL EDUCATION	2.50	2*	16.11 SEMETIC LANGUAGES	1.75	4
13.1320 TRADE AND INDUSTRIAL	2.50	2*	16.99 FOREIGN LANGUAGES, OTHER	2.50	6
13.14 TEACH ENG AS A 2ND LANG/FOREIGN LANG	1.50	2*	17.00 ALLIED HEALTH		
13.99 EDUCATION, OTHER	1.00	1*	17.01 DENTAL SERVICES	4.22	9
14.00 ENGINEERING			17.02 DIAGNOSTIC AND TREATMENT SERVICES	4.10	10
14.01 ENGINEERING, GENERAL	3.80	5*	17.03 MEDICAL LABORATORY TECHNOLOGIES	3.78	9
14.02 AEROSPACE/AERONAUTICAL/ASTRONAUTICAL	3.33	6	17.04 MENTAL HEALTH/HUMAN SERVICES	2.62	8
14.03 AGRICULTURAL ENGINEERING	3.25	4	17.05 MISCELLANEOUS ALLIED HEALTH SERVICES	3.62	13
14.05 BIOENGINEERING & BIOMEDICAL ENGINEERING	3.80	5	17.06 NURSING-RELATED SERVICES	4.67	12
14.07 CHEMICAL ENGINEERING	4.00	5	17.07 OPHTHALMIC SERVICES	4.17	6
14.08 CIVIL ENGINEERING	4.00	5	17.08 REHABILITATION SERVICES	4.11	9
14.09 COMPUTER ENGINEERING	4.29	7	17.99 ALLIED HEALTH, OTHER	3.17	6
14.10 ELECTRICAL/ELECTRONICS/COMMUNICATIONS	4.00	8	18.00 HEALTH SCIENCES		
14.11 ENGINEERING MECHANICS	3.80	5	18.01 AUDIOLOGY AND SPEECH PATHOLOGY	3.40	5
14.12 ENGINEERING PHYSICS	4.00	2*	18.02 BASIC CLINICAL HEALTH SCIENCES	3.00	2
14.13 ENGINEERING SCIENCES	4.00	2*	18.03 CHIROPRACTIC	4.00	1*
14.14 ENVIRONMENTAL HEALTH ENGINEERING	4.00	4	18.04 DENTISTRY	5.00	1*
14.15 GEOLOGICAL ENGINEERING	3.33	3	18.06 EPIDEMIOLOGY	5.00	1*
14.17 INDUSTRIAL ENGINEERING	4.25	4	18.07 HEALTH CARE ADMINISTRATION	3.14	7
14.18 MATERIALS ENGINEERING	4.17	6	18.09 MEDICAL LABORATORY	3.75	4
14.19 MECHANICAL ENGINEERING	3.86	7	18.10 MEDICINE	3.50	2*

Means

≥4.50
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Table 3: (Continued) Demand Ratings for Specific Programs at the Associate Level According to CIP Numbers

CIP	Average	Respondents	CIP	Average	Respondents
18.00 HEALTH SCIENCES			26.00 LIFE SCIENCES		
18.11 NURSING	4.69	13	26.04 CELL AND MOLECULAR BIOLOGY	2.67	6
18.12 OPTOMETRY	5.00	2*	26.05 MICROBIOLOGY	3.00	7
18.13 OSTEOPATHIC MEDICINE	5.00	1*	26.06 MISC. SPECIALIZED AREAS, LIFES SCIENCES	3.25	4
18.14 PHARMACY	3.00	2*	26.07 ZOOLOGY	2.60	5
18.16 POPULATION AND FAMILY PLANNING	5.00	1	26.99 LIFE SCIENCES (OTHER)	3.00	3
18.24 VETERINARY MEDICINE	2.50	2*			
18.99 HEALTH SCIENCES, OTHER	3.00	3	27.00 MATHEMATICS	3.00	3*
19.00 HOME ECONOMICS			27.01 MATHEMATICS (GENERAL)	4.00	12
19.01 HOME ECONOMICS (GENERAL)	1.71	7	27.02 ACTUARIAL SCIENCES	3.09	11
19.02 BUSINESS HOME ECONOMICS	2.33	3	27.03 APPLIED MATHEMATICS	2.38	8
19.03 FAMILY AND COMMUNITY SERVICES	2.50	4	27.04 PURE MATHEMATICS	3.50	2
19.04 FAMILY/CONSUMER RESOURCE MANAGEMENT	2.75	4	27.05 STATISTICS	3.00	2
19.05 FOOD SCIENCES AND HUMAN NUTRITION	3.00	4	27.99 MATHEMATICS		
19.06 HUMAN ENVIRONMENT AND HOUSING	2.67	3	28.00 MILITARY SCIENCES	2.50	2
19.07 INDIVIDUAL AND FAMILY DEVELOPMENT	2.71	7	28.03 MILITARY SCIENCES (ARMY)		
19.08 INTERNATIONAL/COMPARATIVE HOME ECON.	1.67	3	30.00 MULTI/INTERDISCIPLINARY STUDIES		
19.09 TEXTILES AND CLOTHING	1.83	6	30.01 BIOLOGICAL AND PHYSICAL SCIENCES	3.40	5
19.99 HOME ECONOMICS (OTHER)	2.33	3	30.03 ENGINEERING AND OTHER DISCIPLINES	4.17	6
20.00 VOCATIONAL HOME ECONOMICS			30.04 HUMANITIES AND SOCIAL SCIENCES	2.60	5
20.01 CONSUMER AND HOME/MAKING HOME ECONOMICS	2.33	3	30.05 PEACE STUDIES	1.50	2
20.02 CHILD CARE & GUIDANCE MGMT. & SERVICES	3.29	7	30.06 SYSTEMS SCIENCE	4.00	2
20.03 CLOTHING, APPAREL, AND TEXTILES MGMT	2.00	3	30.07 WOMEN'S STUDIES	2.00	3
20.04 FOOD PRODUCTION, MGMT., & SERVICES	2.67	3	30.99 MULTI/INTERDISCIPLINARY STUDIES	2.00	2
20.05 HOME FURNISHING AND EQUIPMENT MGMT	2.40	5	31.00 PARKS AND RECREATION		
20.06 INSTITUTIONAL, HOME MGMT & SERVICES	2.33	3	31.01 PARKS AND RECREATION (GENERAL)	2.25	4
21.00 INDUSTRIAL ARTS			31.02 OUTDOOR RECREATION	2.00	3
21.01 INDUSTRIAL ARTS	3.00	3	31.03 PARKS AND RECREATIONAL MANAGEMENT	2.00	3
22.00 LAW			31.04 WATER RESOURCES	3.00	3
22.01 LAW	4.00	2*	31.99 PARKS AND RECREATION	2.50	4
23.00 LETTERS			32.00 BASIC SKILLS		
23.01 ENGLISH (GENERAL)	1.67	3*	32.01 BASIC SKILLS	2.00	3
23.02 CLASSICS	1.50	6	34.00 HEALTH RELATED ACTIVITIES		
23.03 COMPARATIVE LITERATURE	1.67	6	34.01 HEALTH RELATED ACTIVITIES	2.33	3
23.04 COMPOSITION	2.62	8	36.00 LEISURE AND RECREATIONAL ACTIVITIES		
23.05 CREATIVE WRITING	2.12	8	36.01 LEISURE AND RECREATIONAL ACTIVITIES	2.50	4
23.06 LINGUISTICS	2.25	4	38.00 PHILOSOPHY AND RELIGION		
23.07 LITERATURE, AMERICAN	1.67	6	38.01 PHILOSOPHY	2.09	11
23.08 LITERATURE, ENGLISH	1.67	6	38.02 RELIGION	2.56	9
23.10 SPEECH, DEBATE, AND FORENSICS	2.29	7	38.99 PHILOSOPHY AND RELIGION	2.33	6
23.99 LETTERS, OTHER	2.00	6	39.00 THEOLOGY		
24.00 LIBERAL/GENERAL STUDIES			39.01 BIBLICAL LANGUAGES	1.50	2
24.01 LIBERAL/GENERAL STUDIES	2.33	6*	39.02 BIBLE STUDIES	2.33	3
25.00 LIBRARY AND ARCHIVAL SCIENCES			39.03 MISSIONARY STUDIES	3.00	3
25.01 LIBRARY & ARCHIVAL SCIENCES (GENERAL)	3.00	2	39.04 RELIGIOUS EDUCATION	3.00	3
25.04 LIBRARY SCIENCES	3.00	3	39.05 RELIGIOUS MUSIC	3.00	4
25.05 MUSEOLOGY	3.00	1*	39.06 THEOLOGICAL STUDIES	2.50	4
26.00 LIFE SCIENCES			39.99 THEOLOGY	3.25	4
26.01 BIOLOGY (GENERAL)	2.33	3*	40.00 PHYSICAL SCIENCE		
26.02 BIOCHEMISTRY AND BIOPHYSICS	2.67	3*	40.01 PHYSICAL SCIENCES (GENERAL)	3.33	6
26.03 BOTANY	2.00	2*	40.02 ASTRONOMY	1.50	2
			40.03 ASTROPHYSICS	3.33	3

Means

≥4.50
3.51-4.49
2.51-3.50
1.51-2.50
≤1.50

Implication

Many more job opportunities than graduates available.
Slightly more job opportunities than graduates available.
About as many jobs available as graduates.
Slightly more graduates than available jobs.
Many more graduates than available jobs.
Indicates same number of respondents (or more) stated graduates typically go on to next degree level.

Table 3: (Continued) Demand Ratings for Specific Programs at the Associate Level According to CIP Number

CIP	Average	Respondents	CIP	Average	Respondents
40.00 PHYSICAL SCIENCE			45.00 SOCIAL SCIENCES		
40.04 ATMOSPHERIC SCIENCES & METEOROLOGY	1.50	2	45.08 HISTORY	1.79	14
40.05 CHEMISTRY	3.50	4	45.09 INTERNATIONAL RELATIONS	1.86	7
40.06 GEOLOGICAL SCIENCES	3.11	9	45.10 POLITICAL SCIENCE AND GOVERNMENT	2.38	13
40.07 MISCELLANEOUS PHYSICAL SCIENCES	3.43	7	45.11 SOCIOLOGY	2.08	12
40.08 PHYSICS	2.00	2	45.12 URBAN STUDIES	2.17	6
40.89 APPLIED PHYSICS	3.67	6	45.99 SOCIAL SCIENCE (MI. STUDIES, POLITICAL ECONOMY)	1.33	3
40.99 PHYSICAL SCIENCES (HEALTH SCI., MED. PHYSICS)	4.00	1	46.00 CONSTRUCTION TRADES		
41.00 SCIENCE TECHNOLOGIES			46.02 CARPENTRY	3.33	9
41.01 BIOLOGICAL TECHNOLOGIES	3.33	3	46.03 ELECTRICAL & POWER TRANS. INSTALLATION	3.33	6
41.03 PHYSICAL SCIENCE TECHNOLOGIES	3.80	5	46.05 PLUMBING, PIPEFITTING & STEAMFITTING	3.38	8
41.99 SCIENCE TECHNOLOGIES	3.50	4	46.99 CONSTRUCTION TRADES	3.45	11
42.00 PSYCHOLOGY			47.00 MECHANICS AND REPAIRERS		
42.01 PSYCHOLOGY (GENERAL)	1.33	3*	47.01 ELECTRICAL/ELECTRONICS EQUIP. REPAIR	3.50	12
42.02 CLINICAL PSYCHOLOGY	1.50	2*	47.02 HEAT/AIR CONDITION/REFRIGERATION MECH.	3.70	10
42.04 COMMUNITY PSYCHOLOGY	2.00	3	47.03 INDUSTRIAL EQUIPMENT MAINTENANCE & REPAIR	3.67	6
42.06 COUNSELING PSYCHOLOGY	2.50	2*	47.06 VEHICLE & MOBILE EQUIP MECH & REPAIRERS	4.00	11
42.07 DEVELOPMENTAL PSYCHOLOGY	1.00	1*	47.99 MECHANICS AND REPAIRERS	3.62	8
42.08 EXPERIMENTAL PSYCHOLOGY	1.50	2*	48.00 PRECISION PRODUCTION		
42.09 INDUSTRIAL & ORGANIZATIONAL PSYCHOLOGY	1.67	3	48.01 DRAFTING	3.75	16
42.11 PHYSIOLOGICAL PSYCHOLOGY	1.00	1	48.02 GRAPHIC AND PRINTING COMMUNICATIONS	3.00	10
42.16 SOCIAL PSYCHOLOGY	2.50	4	48.04 PRECISION FOOD PRODUCTION	2.00	1
42.99 PSYCHOLOGY (HEALTH, SOCIAL BEHAVIORAL)	2.50	4	48.05 PRECISION METAL WORK	3.75	8
43.00 PROTECTIVE SERVICES			48.06 PRECISION WORK, ASSORTED MATERIALS	3.00	1
43.01 CRIMINAL JUSTICE	3.00	12	48.07 WOODWORKING	2.67	6
43.02 FIRE PROTECTION	2.38	8	49.00 TRANSPORTATION AND MATERIAL MOVING		
44.00 PUBLIC AFFAIRS			49.01 AIR TRANSPORTATION	3.12	8
44.01 PUBLIC AFFAIRS (GENERAL)	3.20	5	49.02 VEHICLE AND EQUIPMENT OPERATION	3.33	6
44.02 COMMUNITY SERVICES	3.00	6	49.03 WATER TRANSPORTATION	NA	
44.03 INTERNATIONAL PUBLIC SERVICE	2.67	3	49.99 TRANSPORTATION & MATERIAL MOVING	3.17	6
44.04 PUBLIC ADMINISTRATION	2.44	9	50.00 VISUAL AND PERFORMING ARTS		
44.05 PUBLIC POLICY STUDIES	2.33	3	50.01 VISUAL AND PERFORMING ARTS (GENERAL)	2.20	5
44.07 SOCIAL WORK	2.29	7	50.02 CRAFTS	1.75	4
44.99 PUBLIC AFFAIRS (MANUAL COMM., PUB. ADM. TECH)	2.50	2	50.03 DANCE	2.12	8
45.00 SOCIAL SCIENCES			50.04 DESIGN	2.33	6
45.01 SOCIAL SCIENCES (GENERAL)	2.44	9	50.05 DRAMATIC ARTS	2.30	10
45.02 ANTHROPOLOGY	1.60	5	50.06 FILM ARTS (GENERAL)	2.00	6
45.03 ARCHEOLOGY	1.00	3	50.07 FINE ARTS	2.33	6
45.04 CRIMINOLOGY	2.67	3	50.08 GRAPHIC ART TECHNOLOGY	3.00	9
45.06 ECONOMICS	1.50	2	50.09 MUSIC	2.40	10
45.07 GEOGRAPHY	2.14	7	50.99 VISUAL & PERFORMING ARTS	1.67	6

Means

≥4.50
 3.51-4.49
 2.51-3.50
 1.51-2.50
 ≤1.50

Implication

Many more job opportunities than graduates available.
 Slightly more job opportunities than graduates available.
 About as many jobs available as graduates.
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 Many more graduates than available jobs.
 Indicates same number of respondents (or more) stated graduates typically go on to next degree.

Table 4: Demand Ratings for Specific Programs at the Bachelor Level According to CIP Numbers

CIP	Average	Respondents	CIP	Average	Respondents
1.00 AGRI BUSINESS & AGRICULTURE PRODUCTION			6.00 BUSINESS AND MANAGEMENT		
1.01 AGRI BUSINESS & MANAGEMENT	2.80	5	6.17 REAL ESTATE	3.53	15
1.02 AGRICULTURAL MECHANICS	3.00	3	6.18 SMALL BUSINESS MANAGEMENT AND OWNERSHIP	3.71	14
1.03 AGRICULTURAL PRODUCTION	3.00	2	6.19 TAXATION	3.50	8
1.05 AGRI SERVICES & SUPPLIES	2.50	2	6.20 TRADE & INDUSTRIAL SUPV & MANAGEMENT	5.00	1
1.06 HORTICULTURE AND LANDSCAPING	3.50	2	6.99 BUSINESS AND MANAGEMENT (BUS. COMM, LAW, ADMIN)	3.21	14
1.07 PACKAGING	3.33	3			
1.08 AGRICULTURAL AND EXTENSION EDUCATION	3.33	3	7.00 BUSINESS AND OFFICE		
1.99 AGRIBUSINESS & AGRIPRO	3.50	2	7.01 ACCOUNTING, BOOKKEEPING & RELATED PROGRAMS	4.05	19
2.00 AGRICULTURAL SCIENCES			7.02 BANKING AND RELATED FINANCIAL PROGRAMS	3.39	18
2.01 AGRICULTURAL SCIENCES (GENERAL)			7.03 BUSINESS DATA PROCESSING & RELATED PROGRAMS	3.86	14
2.02 ANIMAL SCIENCES	3.00	3	7.04 OFFICE SUPERVISION AND MANAGEMENT	3.54	13
2.03 FOOD SCIENCES	3.50	4	7.06 SECRETARIAL AND RELATED PROGRAMS	4.44	9
2.04 PLANT SCIENCES	4.50	4	7.07 TYPING, GENERAL OFFICE	4.17	6
2.05 SOIL SCIENCES	3.50	4	7.99 BUSINESS AND OFFICE	3.43	7
3.00 RENEWABLE NATURAL RESOURCES	3.33	3	8.00 MARKETING AND DISTRIBUTION		
3.01 RNR (RESOURCE DEVELOPMENT, RESOURCES POLICY)			8.01 APPAREL AND ACCESSORIES MARKETING	3.85	13
3.02 CONSERVATION & REGULATION	3.67	3	8.02 BUSINESS AND PERSONAL SERVICES MARKETING	3.40	15
3.03 FISHING AND FISHERIES	2.56	9	8.04 FINANCIAL SERVICES MARKETING	3.42	19
3.04 FORESTRY PRODUCTION & PROCESSING	2.43	7	8.07 GENERAL MARKETING	4.00	22
3.05 FORESTRY AND RELATED SCIENCES	2.20	5	8.08 HOME AND OFFICE PRODUCTS MARKETING	4.00	10
3.06 WILDLIFE MANAGEMENT	2.25	8	8.09 HOSPITALITY AND RECREATION MARKETING	3.70	11
3.99 RNR (OUTDOOR REC., ECOLOGY, N.R. ECONOMICS)	2.00	4	8.10 INSURANCE MARKETING	4.00	16
4.00 ARCHITECTURE AND ENVIRONMENTAL DESIGN	2.67	6	8.11 TRANSPORTATION AND TRAVEL MARKETING	3.18	11
4.01 ARCHITECTURE & ENVIRONMENTAL DESIGN (GENERAL)			8.12 VEHICLES AND PETROLEUM MARKETING	2.88	8
4.02 ARCHITECTURE	4.00	2	8.99 MARKETING AND DISTRIBUTION (OTHER)	3.29	14
4.03 CITY, COMMUNITY, AND REGIONAL PLANNING	3.29	7	9.00 COMMUNICATIONS		
4.04 ENVIRONMENTAL DESIGN	2.50	6	9.01 COMMUNICATIONS (SPEECH, COMM ARTS, GENERAL)	2.33	21
4.05 INTERIOR DESIGN	4.25	4	9.02 ADVERTISING	2.59	17
4.06 LANDSCAPE ARCHITECTURE	3.00	11	9.04 JOURNALISM (MASS COMMUNICATIONS)	2.67	18
5.00 AREA AND ETHNIC STUDIES	3.20	5	9.05 PUBLIC RELATIONS	2.41	17
5.01 AREA STUDIES	2.00	3	9.99 COMMUNICATIONS (ENVIRONMENTAL, WRITTEN, SPECIAL)	2.91	11
5.02 ETHNIC STUDIES	2.00	3	10.00 COMMUNICATION TECHNOLOGIES		
6.00 BUSINESS AND MANAGEMENT			10.01 COMMUNICATION TECHNOLOGIES	3.38	13
6.01 BUSINESS AND MANAGEMENT (GENERAL)			11.00 COMPUTER AND INFORMATION SCIENCES		
6.02 ACCOUNTING	3.26	27	11.01 COMPUTER AND INFORMATION SCIENCES (GENERAL)	3.65	26
6.03 BANKING AND FINANCE	4.04	27	11.02 COMPUTER PROGRAMING	3.96	24
6.04 BUSINESS ADMINISTRATION & MANAGEMENT	3.54	26	11.03 DATA PROCESSING	3.70	20
6.05 BUSINESS ECONOMICS	3.00	24	11.04 INFORMATION SCIENCES AND SYSTEMS	3.61	23
6.06 HUMAN RESOURCES DEVELOPMENT	3.33	6	11.05 SYSTEMS ANALYSIS	3.70	20
6.07 INSTITUTIONAL MANAGEMENT	2.64	22	11.99 COMPUTER AND INFORMATION SCIENCES (SPECIAL PGMS)	3.82	11
6.08 INSURANCE AND RISK MANAGEMENT	4.53	15	12.00 CONSUMER, PERSONAL, AND MISC. SERVICES		
6.09 INTERNATIONAL BUSINESS MANAGEMENT	3.69	16	12.03 FUNERAL SERVICES	4.00	2
6.10 INVESTMENTS AND SECURITIES	2.30	10	12.04 PERSONAL SERVICES	5.00	1
6.11 LABOR/INDUSTRIAL RELATIONS	3.54	13	13.00 EDUCATION		
6.12 MANAGEMENT INFORMATION SYSTEMS	2.60	15	13.01 EDUCATION (GENERAL)	2.23	13
6.13 MANAGEMENT SCIENCE	3.89	19	13.02 BILINGUAL/BICULTURAL EDUCATION	3.85	13
6.14 MARKETING MANAGEMENT AND RESEARCH	2.89	9	13.03 CURRICULUM AND INSTRUCTION	2.67	3
6.15 ORGANIZATIONAL BEHAVIOR	3.00	18	13.04 EDUCATION ADMINISTRATION	2.75	4
6.16 PERSONNEL MANAGEMENT	2.69	13	13.05 EDUCATIONAL MEDIA	2.75	4
	2.68	19	13.06 EVALUATION AND RESEARCH	3.00	2*

Means

≥4.50
3.51-4.49
2.51-3.50
1.51-2.50
≤1.50

Implication

Many more job opportunities than graduates available.
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About as many jobs available as graduates.
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CIP	Average	Respondents	CIP	Average	Respondents
13.00 EDUCATION			14.00 ENGINEERING		
13.08 SCHOOL PSYCHOLOGY	2.33	3*	14.20 METALLURGICAL ENGINEERING	4.33	6
13.09 SOCIAL FOUNDATIONS	2.00	2*	14.21 MINING AND MINERAL ENGINEERING	3.50	2
13.10 SPECIAL EDUCATION	4.36	14	14.22 NAVAL ARCHITECTURE & MARINE ENGINEERING	4.00	3
13.11 STUDENT COUNSELING & PERSONNEL SERVICES	2.75	8	14.23 NUCLEAR ENGINEERING	4.00	4
13.12 TEACHER EDUCATION, GENERAL PROGRAMS	2.38	8	14.25 PETROLEUM ENGINEERING	3.75	4
13.1201 ADULT AND CONTINUING EDUCATION	2.67	6	14.27 SYSTEMS ENGINEERING	4.50	4
13.1202 ELEMENTARY EDUCATION	2.12	17	14.99 ENGINEERING (OTHER: PLASTICS, CAD, ENG MGT)	3.33	3
13.1203 JUNIOR HIGH EDUCATION	2.00	15	15.00 ENGINEERING AND RELATED TECHNOLOGIES		
13.1204 EARLY CHILDHOOD/PRE-ELEMENTARY	2.59	17	15.01 ARCHITECTURAL TECHNOLOGIES	4.50	2
13.1205 SENIOR HIGH EDUCATION	2.00	15	15.02 CIVIL TECHNOLOGIES	4.00	4
13.1300 TEACHER EDUC, SPEC. SUBJECT AREAS	NA		15.03 ELECTRICAL AND ELECTRONIC TECHNOLOGIES	4.00	5
13.1301 AGRICULTURAL EDUCATION	2.33	3*	15.04 ELECTROMECHANICAL, INSTRUMENT AND MAINTENANCE TECHNOLOGIES		
13.1302 ART EDUCATION	1.86	14	15.05 ENVIRONMENTAL CONTROL TECHNOLOGIES	4.50	2
13.1303 BUSINESS EDUCATION	1.75	12	15.06 INDUSTRIAL PRODUCTION TECHNOLOGIES	4.00	4
13.1304 DRIVER AND SAFETY EDUCATION	3.00	5	15.07 QUALITY CONTROL & SAFETY TECHNOLOGIES	4.33	6
13.1305 ENGLISH	2.21	14	15.08 MECHANICAL & RELATED TECHNOLOGIES	4.50	4
13.1306 FOREIGN LANGUAGES	2.71	14	15.09 MINING AND PETROLEUM TECHNOLOGIES	4.17	6
13.1307 HEALTH EDUCATION	1.54	13	15.99 ENGINEERING AND RELATED TECHNOLOGIES	3.00	1
13.1308 HOME ECONOMICS	1.64	11	16.00 FOREIGN LANGUAGES	4.00	4
13.1309 INDUSTRIAL ARTS	2.22	9	16.01 FOREIGN LANGUAGES, MULTIPLE EMPHASIS		
13.1310 MARKETING ADN DISTRIBUTION	1.57	7	16.03 ASIATIC LANGUAGES	3.00	3
13.1311 MATHEMATICS	3.06	16	16.04 BALTO-SLAVIC LANGUAGES	3.25	4
13.1312 MUSIC	2.62	16	16.05 GERMANIC LANGUAGES	2.33	3
13.1314 PHYSICAL EDUCATION	1.62	13	16.06 GREEK	2.00	3
13.1315 READING	2.31	13	16.08 IRANIAN LANGUAGES	1.33	3
13.1316 SCIENCE EDUCATION	2.79	14	16.09 ITALIC LANGUAGES	2.75	4
13.1317 SOCIAL SCIENCE/STUDIES	1.64	14	16.11 SEMETIC LANGUAGES	2.00	2
13.1319 TECHNICAL EDUCATION	3.25	4	16.99 FOREIGN LANGUAGES ,OTHER	1.67	3
13.1320 TRADE AND INDUSTRIAL	3.25	4	17.00 ALLIED HEALTH	2.67	3
13.14 TEACH ENG AS A 2ND LANG/FOREIGN LANG	3.57	14	17.01 DENTAL SERVICES		
13.99 EDUCATION, OTHER	NA		17.02 DIAGNOSTIC AND TREATMENT SERVICES	4.50	2
14.00 ENGINEERING			17.03 MEDICAL LABORATORY TECHNOLOGIES	4.25	4
14.01 ENGINEERING ,GENERAL	4.20	10	17.04 MENTAL HEALTH/HUMAN SERVICES	3.88	8
14.02 AEROSPACE/AERONAUTICAL/ASTRONAUTICAL	3.50	6	17.05 MISCELLANEOUS ALLIED HEALTH SERVICES	3.25	8
14.03 AGRICULTURAL ENGINEERING	3.50	4	17.06 NURSING-RELATED SERVICES	4.00	4
14.05 BIOENGINEERING & BIOMEDICAL ENGINEERING	4.00	4	17.07 OPHTHALMIC SERVICES	4.50	8
14.07 CHEMICAL ENGINEERING	3.22	8	17.08 REHABILITATION SERVICES	4.67	3
14.08 CIVIL ENGINEERING	4.00	9	17.99 ALLIED HEALTH ,OTHER	4.33	9
14.09 COMPUTER ENGINEERING	4.10	10	18.00 HEALTH SCIENCES	3.75	4
14.10 ELECTRICAL/ELECTRONICS/COMMUNICATIONS	3.92	12	18.01 AUDIOLOGY AND SPEECH PATHOLOGY		
14.11 ENGINEERING MECHANICS	3.75	4	18.02 BASIC CLINICAL HEALTH SCIENCES	4.33	6
14.12 ENGINEERING PHYSICS	3.67	3	18.03 CHIROPRACTIC	5.00	1
14.13 ENGINEERING SCIENCES	3.67	3	18.04 DENTISTRY	NA	1*
14.14 ENVIRONMENTAL HEALTH ENGINEERING	4.33	3	18.06 EPIDEMIOLOGY	NA	*
14.15 GEOLOGICAL ENGINEERING	3.50	2	18.07 HEALTH CARE ADMINISTRATION	3.50	2
14.17 INDUSTRIAL ENGINEERING	4.00	10	18.09 MEDICAL LABORATORY	4.50	2
14.18 MATERIALS ENGINEERING	4.60	5	18.10 MEDICINE	5.00	2*
14.19 MECHANICAL ENGINEERING	4.07	15			

Means

≥4.50
3.51-4.49
2.51-3.50
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≤1.50

Implication

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Table 4: (Continued) Demand Ratings for Specific Programs at the Bachelor Level According to CIP Numbers

CIP	Average	Respondents	CIP	Average	Respondents
18.00 HEALTH SCIENCES			26.00 LIFE SCIENCES		
18.11 NURSING	4.82	17	26.04 CELL AND MOLECULAR BIOLOGY	3.75	4*
18.12 OPTOMETRY	NA	*	26.05 MICROBIOLOGY	3.75	4*
18.13 OSTEOPATHIC MEDICINE	NA	*	26.06 MISC. SPECIALIZED AREAS, LIFES SCIENCES	4.00	2
18.14 PHARMACY	5.00	3	26.07 ZOOLOGY	3.00	2*
18.16 POPULATION AND FAMILY PLANNING	5.00	1	26.99 LIFE SCIENCES (OTHER)	4.00	1
18.24 VETERINARY MEDICINE	5.00	1*	27.00 MATHEMATICS		
18.99 HEALTH SCIENCES, OTHER	4.00	4	27.01 MATHEMATICS (GENERAL)	3.05	19
19.00 HOME ECONOMICS			27.02 ACTUARIAL SCIENCES	3.67	3
19.01 HOME ECONOMICS (GENERAL)	1.67	3	27.03 APPLIED MATHEMATICS	4.00	3
19.02 BUSINESS HOME ECONOMICS	2.00	3	27.04 PURE MATHEMATICS	2.67	3
19.03 FAMILY AND COMMUNITY SERVICES	2.86	7	27.05 STATISTICS	3.38	13
19.04 FAMILY/CONSUMER RESOURCE MANAGEMENT	2.60	5	27.99 MATHEMATICS	3.22	9
19.05 FOOD SCIENCES AND HUMAN NUTRITION	3.38	8	28.00 MILITARY SCIENCES		
19.06 HUMAN ENVIRONMENT AND HOUSING	2.25	4	28.03 MILITARY SCIENCES (ARMY)	3.00	3
19.07 INDIVIDUAL AND FAMILY DEVELOPMENT	3.00	2	30.00 MULTI/INTERDISCIPLINARY STUDIES		
19.08 INTERNATIONAL/COMPARATIVE HOME ECON.	2.00	1	30.01 BIOLOGICAL AND PHYSICAL SCIENCES	3.50	2
19.09 TEXTILES AND CLOTHING	2.67	3	30.03 ENGINEERING AND OTHER DISCIPLINES	4.33	3
19.99 HOME ECONOMICS (OTHER)	3.00	1	30.04 HUMANITIES AND SOCIAL SCIENCES	2.00	2*
20.00 VOCATIONAL HOME ECONOMICS			30.05 PEACE STUDIES	1.00	2
20.01 CONSUMER AND HOMEMAKING HOME ECONOMICS	2.00	4	30.06 SYSTEMS SCIENCE	4.00	2
20.02 CHILD CARE & GUIDANCE MGMT. & SERVICES	3.00	8	30.07 WOMEN'S STUDIES	2.33	3
20.03 CLOTHING, APPAREL, AND TEXTILES MGMT	2.50	8	30.99 MULTI/INTERDISCIPLINARY STUDIES	2.00	2
20.04 FOOD PRODUCTION, MGMT, & SERVICES	3.14	7	31.00 PARKS AND RECREATION		
20.05 HOME FURNISHING AND EQUIPMENT MGMT	2.67	3	31.01 PARKS AND RECREATION (GENERAL)	2.17	12
20.06 INSTITUTIONAL, HOME MGMT & SERVICES	2.80	5	31.02 OUTDOOR RECREATION	2.20	10
21.00 INDUSTRIAL ARTS			31.03 PARKS AND RECREATIONAL MANAGEMENT	2.23	13
21.01 INDUSTRIAL ARTS	2.33	3	31.04 WATER RESOURCES	2.83	6
22.00 LAW			31.99 PARKS AND RECREATION	3.12	8
22.01 LAW	3.00	3*	32.00 BASIC SKILLS		
23.00 LETTERS			32.01 BASIC SKILLS	2.00	1
23.01 ENGLISH (GENERAL)	2.20	15	34.00 HEALTH RELATED ACTIVITIES		
23.02 CLASSICS	1.33	3	34.01 HEALTH RELATED ACTIVITIES	2.75	8
23.03 COMPARATIVE LITERATURE	1.67	3	36.00 LEISURE AND RECREATION ACTIVITIES		
23.04 COMPOSITION	2.75	4	36.01 LEISURE AND RECREATIONAL ACTIVITIES	2.67	9
23.05 CREATIVE WRITING	2.33	3	38.00 PHILOSOPHY AND RELIGION		
23.06 LINGUISTICS	2.75	4	38.01 PHILOSOPHY	2.00	5*
23.07 LITERATURE, AMERICAN	1.33	3	38.02 RELIGION	2.25	4*
23.08 LITERATURE, ENGLISH	1.33	3	38.99 PHILOSOPHY AND RELIGION	2.60	5
23.10 SPEECH, DEBATE, AND FORENSICS	1.67	3	39.00 THEOLOGY		
23.99 LETTERS, OTHER	1.50	2	39.01 BIBLICAL LANGUAGES	1.50	2
24.00 LIBERAL/GENERAL STUDIES			39.02 BIBLE STUDIES	1.50	2
24.01 LIBERAL/GENERAL STUDIES	2.46	13	39.03 MISSIONARY STUDIES	3.00	3
25.00 LIBRARY AND ARCHIVAL SCIENCES			39.04 RELIGIOUS EDUCATION	2.67	3
25.01 LIBRARY & ARCHIVAL SCIENCES (GENERAL)	3.50	4	39.05 RELIGIOUS MUSIC	2.67	3
25.04 LIBRARY SCIENCES	3.50	4	39.06 THEOLOGICAL STUDIES	2.67	3
25.05 MUSEOLOGY	3.00	1	39.99 THEOLOGY	2.67	3
26.00 LIFE SCIENCES			40.00 PHYSICAL SCIENCE		
26.01 BIOLOGY (GENERAL)	2.56	16	40.01 PHYSICAL SCIENCES (GENERAL)	3.00	3
26.02 BIOCHEMISTRY AND BIOPHYSICS	3.36	11	40.02 ASTRONOMY	2.33	3
26.03 BOTANY	2.20	5*	40.03 ASTROPHYSICS	3.33	3

Means

≥4.50

3.51-4.49

2.51-3.50

1.51-2.50

≤1.50

*

Implication

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Table 4: (Continued) Demand Ratings for Specific Programs at the Bachelor Level According to CIP Number

CIP	Average	Respondents	CIP	Average	Respondents
40.00 PHYSICAL SCIENCE			45.00 SOCIAL SCIENCES		
40.04 ATMOSPHERIC SCIENCES & METEOROLOGY	3.75	4	45.08 HISTORY	2.20	5*
40.05 CHEMISTRY	3.88	17	45.09 INTERNATIONAL RELATIONS	2.25	4
40.06 GEOLOGICAL SCIENCES	3.20	5	45.10 POLITICAL SCIENCE AND GOVERNMENT	2.00	5*
40.07 MISCELLANEOUS PHYSICAL SCIENCES	3.33	3	45.11 SOCIOLOGY	2.17	6*
40.08 PHYSICS	3.00	9	45.12 URBAN STUDIES	2.25	4
40.89 APPLIED PHYSICS	3.75	4	45.99 SOCIAL SCIENCE (MI. STUDIES, POLITICAL ECONOMY)	3.00	5
40.99 PHYSICAL SCIENCES (HEALTH SCI., MED. PHYSICS)	4.50	2	46.00 CONSTRUCTION TRADES		
41.00 SCIENCE TECHNOLOGIES			46.02 CARPENTRY	3.67	3
41.01 BIOLOGICAL TECHNOLOGIES	3.00	3	46.03 ELECTRICAL & POWER TRANS. INSTALLATION	3.33	3
41.03 PHYSICAL SCIENCE TECHNOLOGIES	3.50	2	46.05 PLUMBING, PIPEFITTING & STEAMFITTING	3.50	2
41.99 SCIENCE TECHNOLOGIES	4.00	2	46.99 CONSTRUCTION TRADES	3.50	4
42.00 PSYCHOLOGY			47.00 MECHANICS AND REPAIRERS		
42.01 PSYCHOLOGY (GENERAL)	2.31	13*	47.01 ELECTRICAL/ELECTRONICS EQUIP. REPAIR		
42.02 CLINICAL PSYCHOLOGY	3.33	3*	47.02 HEAT/AIR CONDITION/REFRIGERATION MECH.	4.00	2
42.04 COMMUNITY PSYCHOLOGY	1.00	1*	47.03 INDUSTRIAL EQUIPMENT MAINTENANCE & REPAIR	4.00	2
42.06 COUNSELING PSYCHOLOGY	2.50	2*	47.06 VEHICLE & MOBILE EQUIP MECH & REPAIRERS	4.00	2
42.07 DEVELOPMENTAL PSYCHOLOGY	1.00	1*	47.99 MECHANICS AND REPAIRERS	4.50	2
42.08 EXPERIMENTAL PSYCHOLOGY	1.00	1*	48.00 PRECISION PRODUCTION		
42.09 INDUSTRIAL & ORGANIZATIONAL PSYCHOLOGY	1.00	1*	48.01 DRAFTING	3.33	3
42.11 PHYSIOLOGICAL PSYCHOLOGY	1.00	1*	48.02 GRAPHIC AND PRINTING COMMUNICATIONS	3.50	2
42.16 SOCIAL PSYCHOLOGY	2.50	2*	48.04 PRECISION FOOD PRODUCTION	NA	
42.99 PSYCHOLOGY (HEALTH, SOCIAL BEHAVIORAL)	2.50	2*	48.05 PRECISION METAL WORK	3.00	1
43.00 PROTECTIVE SERVICES			48.06 PRECISION WORK, ASSORTED MATERIALS	NA	
43.01 CRIMINAL JUSTICE	3.20	15	48.07 WOODWORKING	2.00	1
43.02 FIRE PROTECTION	3.00	3	49.00 TRANSPORTATION AND MATERIAL MOVING		
44.00 PUBLIC AFFAIRS			49.01 AIR TRANSPORTATION	3.50	2
44.01 PUBLIC AFFAIRS (GENERAL)	2.50	2	49.02 VEHICLE AND EQUIPMENT OPERATION	NA	
44.02 COMMUNITY SERVICES	2.50	2	49.03 WATER TRANSPORTATION	NA	
44.03 INTERNATIONAL PUBLIC SERVICE	3.00	2	49.99 TRANSPORTATION & MATERIAL MOVING	3.00	1
44.04 PUBLIC ADMINISTRATION	3.00	9	50.00 VISUAL AND PERFORMING ARTS		
44.05 PUBLIC POLICY STUDIES	2.50	2	50.01 VISUAL AND PERFORMING ARTS (GENERAL)	2.00	7
44.07 SOCIAL WORK	2.93	15	50.02 CRAFTS	NA	
44.99 PUBLIC AFFAIRS (MANUAL COMM., PUB. ADM. TECH)	3.00	2	50.03 DANCE	2.00	1
45.00 SOCIAL SCIENCES			50.04 DESIGN	NA	
45.01 SOCIAL SCIENCES (GENERAL)	2.33	3	50.05 DRAMATIC ARTS	2.00	1
45.02 ANTHROPOLOGY	2.50	4	50.06 FILM ARTS (GENERAL)	2.00	1
45.03 ARCHEOLOGY	1.50	2	50.07 FINE ARTS	1.86	7
45.04 CRIMINOLOGY	3.00	7	50.08 GRAPHIC ART TECHNOLOGY	3.22	9
45.06 ECONOMICS	2.73	11	50.09 MUSIC	3.00	1
45.07 GEOGRAPHY	2.80	5	50.99 VISUAL & PERFORMING ARTS	NA	

Means

≥4.50
 3.51-4.49
 2.51-3.50
 1.51-2.50
 ≤1.50

Implication

Many more job opportunities than graduates available.
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Table 5: Demand Ratings for Specific Programs at the Masters Level According to CIP Numbers

CIP	Average	Respondents	CIP	Average	Respondents
1.00 AGRICULTURE PRODUCTION			6.00 BUSINESS AND MANAGEMENT		
1.01 AGRICULTURE PRODUCTION	3.33	3	6.17 REAL ESTATE	4.20	5
1.02 AGRICULTURE MECHANICS	3.50	2	6.18 SMALL BUSINESS MANAGEMENT AND OWNERSHIP	4.40	5
1.03 AGRICULTURAL PRODUCTION	3.00	2	6.19 TAXATION	3.67	3
1.05 AGRICULTURE SERVICES & SUPPLIES	2.50	2	6.20 TRADE & INDUSTRIAL SUPV & MANAGEMENT	NA	
1.06 HORTICULTURE AND LANDSCAPING	3.50	2	6.99 BUSINESS AND MANAGEMENT (BUS. COMM, LAW, ADMIN)	3.40	5
1.07 PACKAGING	4.00	2			
1.08 AGRICULTURAL AND EXTENSION EDUCATION	3.33	3	7.00 BUSINESS AND OFFICE	4.00	5
1.99 AGRIBUSINESS & AGRIPRO	3.00	1	7.01 ACCOUNTING, BOOKKEEPING & RELATED PROGRAMS	4.00	6
2.00 AGRICULTURAL SCIENCES			7.02 BANKING AND RELATED FINANCIAL PROGRAMS	4.60	5
2.01 AGRICULTURAL SCIENCES (GENERAL)	3.67	3	7.03 BUSINESS DATA PROCESSING & RELATED PROGRAMS	3.33	3
2.02 ANIMAL SCIENCES	3.33	3	7.04 OFFICE SUPERVISION AND MANAGEMENT	5.00	2
2.03 FOOD SCIENCES	4.33	3	7.06 SECRETARIAL AND RELATED PROGRAMS	5.00	2
2.04 PLANT SCIENCES	3.67	3	7.07 TYPING, GENERAL OFFICE	2.00	1
2.05 SOIL SCIENCES	3.33	3	7.99 BUSINESS AND OFFICE		
3.00 RENEWABLE NATURAL RESOURCES			8.00 MARKETING AND DISTRIBUTION		
3.01 RNR (RESOURCE DEVELOPMENT, RESOURCES POLICY)	3.50	2	8.01 APPAREL AND ACCESSORIES MARKETING	4.00	3
3.02 CONSERVATION & REGULATION	3.25	4	8.02 BUSINESS AND PERSONAL SERVICES MARKETING	3.60	5
3.03 FISHING AND FISHERIES	2.75	4	8.04 FINANCIAL SERVICES MARKETING	3.83	6
3.04 FORESTRY PRODUCTION & PROCESSING	2.67	3	8.07 GENERAL MARKETING	3.60	5
3.05 FORESTRY AND RELATED SCIENCES	2.75	4	8.08 HOME AND OFFICE PRODUCTS MARKETING	4.00	2
3.06 WILDLIFE MANAGEMENT	2.33	3	8.09 HOSPITALITY AND RECREATION MARKETING	4.25	4
3.99 RNR (OUTDOOR REC., ECOLOGY, N.R. ECONOMICS)	3.00	5	8.10 INSURANCE MARKETING	3.50	2
4.00 ARCHITECTURE AND ENVIRONMENTAL DESIGN			8.11 TRANSPORTATION AND TRAVEL MARKETING	3.00	1
4.01 ARCHITECTURE & ENVIRONMENTAL DESIGN (GENERAL)	4.00	2	8.12 VEHICLES AND PETROLEUM MARKETING	3.50	4
4.02 ARCHITECTURE	4.50	2	8.99 MARKETING AND DISTRIBUTION (OTHER)		
4.03 CITY, COMMUNITY, AND REGIONAL PLANNING	3.50	2	9.00 COMMUNICATIONS		
4.04 ENVIRONMENTAL DESIGN	4.00	2	9.01 COMMUNICATIONS (SPEECH, COMM ARTS, GENERAL)	2.50	6
4.05 INTERIOR DESIGN	3.40	5	9.02 ADVERTISING	3.40	5
4.06 LANDSCAPE ARCHITECTURE	3.50	4	9.04 JOURNALISM (MASS COMMUNICATIONS)	2.80	5
5.00 AREA AND ETHNIC STUDIES			9.05 PUBLIC RELATIONS	3.00	2
5.01 AREA STUDIES	2.33	3	9.99 COMMUNICATIONS (ENVIRONMENTAL, WRITTEN, SPECIAL)		
5.02 ETHNIC STUDIES	2.67	3	10.00 COMMUNICATION TECHNOLOGIES	4.00	2
6.00 BUSINESS AND MANAGEMENT			10.01 COMMUNICATION TECHNOLOGIES		
6.01 BUSINESS AND MANAGEMENT (GENERAL)	3.36	11	11.00 COMPUTER AND INFORMATION SCIENCES (GENERAL)		
6.02 ACCOUNTING	4.17	12	11.01 COMPUTER AND INFORMATION SCIENCES (GENERAL)	3.92	12
6.03 BANKING AND FINANCE	3.85	13	11.02 COMPUTER PROGRAMING	3.80	10
6.04 BUSINESS ADMINISTRATION & MANAGEMENT	3.50	10	11.03 DATA PROCESSING	3.78	9
6.05 BUSINESS ECONOMICS	3.67	3	11.04 INFORMATION SCIENCES AND SYSTEMS	4.10	10
6.06 HUMAN RESOURCES DEVELOPMENT	3.60	10	11.05 SYSTEMS ANALYSIS	4.00	10
6.07 INSTITUTIONAL MANAGEMENT	4.67	3	11.99 COMPUTER AND INFORMATION SCIENCES (SPECIAL PGMS)	4.33	3
6.08 INSURANCE AND RISK MANAGEMENT	3.14	7	12.00 CONSUMER, PERSONAL, AND MISC. SERVICES	5.00	1
6.09 INTERNATIONAL BUSINESS MANAGEMENT	3.14	7	12.03 FUNERAL SERVICES	5.00	1
6.10 INVESTMENTS AND SECURITIES	4.00	6	12.04 PERSONAL SERVICES		
6.11 LABOR/INDUSTRIAL RELATIONS	4.12	8	13.00 EDUCATION		
6.12 MANAGEMENT INFORMATION SYSTEMS	4.00	11	13.01 EDUCATION (GENERAL)	2.78	9
6.13 MANAGEMENT SCIENCE	3.50	4	13.02 BILINGUAL/BICULTURAL EDUCATION	3.83	6
6.14 MARKETING MANAGEMENT AND RESEARCH	3.50	8	13.03 CURRICULUM AND INSTRUCTION	3.00	8
6.15 ORGANIZATIONAL BEHAVIOR	3.33	6	13.04 EDUCATION ADMINISTRATION	3.22	9
6.16 PERSONNEL MANAGEMENT	3.50	10	13.05 EDUCATIONAL MEDIA	3.33	6
			13.06 EVALUATION AND RESEARCH	3.40	5

Means

≥4.50
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Implication

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Table 5: (Continued) Demand Ratings for Specific Programs at the Masters Level According to CIP Numbers

CIP	Average	Respondents	CIP	Average	Respondents
13.00 EDUCATION			14.00 ENGINEERING		
13.08 SCHOOL PSYCHOLOGY	3.67	6	14.20 METALLURGICAL ENGINEERING	4.80	5
13.09 SOCIAL FOUNDATIONS	2.33	3	14.21 MINING AND MINERAL ENGINEERING	4.00	2
13.10 SPECIAL EDUCATION	4.22	9	14.22 NAVAL ARCHITECTURE & MARINE ENGINEERING	4.33	3
13.11 STUDENT COUNSELING & PERSONNEL SERVICES	3.11	9	14.23 NUCLEAR ENGINEERING	4.00	4
13.12 TEACHER EDUCATION, GENERAL PROGRAMS	2.33	6	14.25 PETROLEUM ENGINEERING	4.33	3
13.1201 ADULT AND CONTINUING EDUCATION	2.67	6	14.27 SYSTEMS ENGINEERING	4.50	4
13.1202 ELEMENTARY EDUCATION	2.12	8	14.99 ENGINEERING (OTHER: PLASTICS, CAD, ENG MGT)	3.50	2
13.1203 JUNIOR HIGH EDUCATION	2.62	8	15.00 ENGINEERING AND RELATED TECHNOLOGIES		
13.1204 EARLY CHILDHOOD/PRE-ELEMENTARY	2.57	7	15.01 ARCHITECTURAL TECHNOLOGIES	NA	*
13.1205 SENIOR HIGH EDUCATION	2.33	6	15.02 CIVIL TECHNOLOGIES	NA	*
13.1300 TEACHER EDUC, SPEC. SUBJECT AREAS	NA		15.03 ELECTRICAL AND ELECTRONIC TECHNOLOGIES	NA	*
13.1301 AGRICULTURAL EDUCATION	2.50	4	15.04 ELECTROMECHANICAL, INSTRUMENT AND MAINTENANCE TECHNOLOGIES	4.00	1
13.1302 ART EDUCATION	1.67	6	15.05 ENVIRONMENTAL CONTROL TECHNOLOGIES	3.00	2
13.1303 BUSINESS EDUCATION	2.17	6	15.06 INDUSTRIAL PRODUCTION TECHNOLOGIES	4.00	1
13.1304 DRIVER AND SAFETY EDUCATION	2.80	5	15.07 QUALITY CONTROL & SAFETY TECHNOLOGIES	5.00	1
13.1305 ENGLISH	2.33	6	15.08 MECHANICAL & RELATED TECHNOLOGIES	4.00	2
13.1306 FOREIGN LANGUAGES	2.83	6	15.09 MINING AND PETROLEUM TECHNOLOGIES	3.00	1
13.1307 HEALTH EDUCATION	1.80	5	15.99 ENGINEERING AND RELATED TECHNOLOGIES	5.00	1
13.1308 HOME ECONOMICS	1.67	6	16.00 FOREIGN LANGUAGES		
13.1309 INDUSTRIAL ARTS	2.17	6	16.01 FOREIGN LANGUAGES, MULTIPLE EMPHASIS	3.67	3
13.1310 MARKETING ADN DISTRIBUTION	1.80	5	16.03 ASIATIC LANGUAGES	4.00	2
13.1311 MATHEMATICS	3.29	7	16.04 BALTO-SLAVIC LANGUAGES	2.50	2
13.1312 MUSIC	2.86	7	16.05 GERMANIC LANGUAGES	2.00	2
13.1314 PHYSICAL EDUCATION	1.71	7	16.06 GREEK	1.50	2
13.1315 READING	2.75	8	16.08 IRANTAN LANGUAGES	3.50	2
13.1316 SCIENCE EDUCATION	2.86	7	16.09 ITALIC LANGUAGES	2.00	2
13.1317 SOCIAL SCIENCE/STUDIES	1.86	7	16.11 SEMETIC LANGUAGES	1.00	1
13.1319 TECHNICAL EDUCATION	3.50	4	16.99 FOREIGN LANGUAGES, OTHER	1.00	1
13.1320 TRADE AND INDUSTRIAL	3.75	4	17.00 ALLIED HEALTH		
13.14 TEACH ENG AS A 2ND LANG/FOREIGN LANG	3.00	7	17.01 DENTAL SERVICES	5.00	1
13.99 EDUCATION, OTHER	NA		17.02 DIAGNOSTIC AND TREATMENT SERVICES	4.50	2
14.00 ENGINEERING			17.03 MEDICAL LABORATORY TECHNOLOGIES	5.00	2
14.01 ENGINEERING, GENERAL	4.00	5	17.04 MENTAL HEALTH/HUMAN SERVICES	3.75	4
14.02 AEROSPACE/AERONAUTICAL/ASTRONAUTICAL	4.20	5	17.05 MISCELLANEOUS ALLIED HEALTH SERVICES	4.00	1
14.03 AGRICULTURAL ENGINEERING	4.00	4	17.06 NURSING-RELATED SERVICES	4.25	4
14.05 BIOENGINEERING & BIOMEDICAL ENGINEERING	4.00	5	17.07 OPHTHALMIC SERVICES	5.00	1
14.07 CHEMICAL ENGINEERING	4.00	7	17.08 REHABILITATION SERVICES	4.67	3
14.08 CIVIL ENGINEERING	3.29	7	17.99 ALLIED HEALTH, OTHER	5.00	2
14.09 COMPUTER ENGINEERING	4.38	8	18.00 HEALTH SCIENCES		
14.10 ELECTRICAL/ELECTRONICS/COMMUNICATIONS	4.00	7	18.01 AUDIOLOGY AND SPEECH PATHOLOGY	4.50	2
14.11 ENGINEERING MECHANICS	4.25	4	18.02 BASIC CLINICAL HEALTH SCIENCES	5.00	1
14.12 ENGINEERING PHYSICS	4.50	2	18.03 CHIROPRACTIC	NA	*
14.13 ENGINEERING SCIENCES	4.50	2	18.04 DENTISTRY	NA	*
14.14 ENVIRONMENTAL HEALTH ENGINEERING	5.00	2	18.06 EPIDEMIOLOGY	NA	*
14.15 GEOLOGICAL ENGINEERING	4.50	2	18.07 HEALTH CARE ADMINISTRATION	5.00	1
14.17 INDUSTRIAL ENGINEERING	4.17	6	18.09 MEDICAL LABORATORY	5.00	1
14.18 MATERIALS ENGINEERING	4.60	5	18.10 MEDICINE	NA	*
14.19 MECHANICAL ENGINEERING	4.25	8			

Means

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Implication

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Table 5: (Continued) Demand Ratings for Specific Programs at the Masters Level According to CIP Numbers

CIP	Average	Respondents	CIP	Average	Respondents
18.00 HEALTH SCIENCES			26.00 LIFE SCIENCES		
18.11 NURSING	4.57	7	26.04 CELL AND MOLECULAR BIOLOGY	4.25	4
18.12 OPTOMETRY	NA	*	26.05 MICROBIOLOGY	4.25	4
18.13 OSTEOPATHIC MEDICINE	NA	*	26.06 MISC. SPECIALIZED AREAS, LIFES SCIENCES	5.00	1
18.14 PHARMACY	5.00	1	26.07 ZOOLOGY	3.67	3
18.16 POPULATION AND FAMILY PLANNING	NA	*	26.99 LIFE SCIENCES (OTHER)	5.00	1
18.24 VETERINARY MEDICINE	NA	*	27.00 MATHEMATICS		
18.99 HEALTH SCIENCES, OTHER	5.00	1	27.01 MATHEMATICS (GENERAL)	3.57	7
19.00 HOME ECONOMICS			27.02 ACTUARIAL SCIENCES	3.50	2
19.01 HOME ECONOMICS (GENERAL)	2.00	2	27.03 APPLIED MATHEMATICS	3.67	3
19.02 BUSINESS HOME ECONOMICS	3.00	1	27.04 PURE MATHEMATICS	2.00	2
19.03 FAMILY AND COMMUNITY SERVICES	3.00	1	27.05 STATISTICS	3.71	7
19.04 FAMILY/CONSUMER RESOURCE MANAGEMENT	3.00	1	27.99 MATHEMATICS	3.00	3
19.05 FOOD SCIENCES AND HUMAN NUTRITION	4.00	3	28.00 MILITARY SCIENCES		
19.06 HUMAN ENVIRONMENT AND HOUSING	2.50	2	28.03 MILITARY SCIENCES (ARMY)	3.00	3
19.07 INDIVIDUAL AND FAMILY DEVELOPMENT	3.00	1	30.00 MULTI/INTERDISCIPLINARY STUDIES		
19.08 INTERNATIONAL/COMPARATIVE HOME ECON.	2.00	1	30.01 BIOLOGICAL AND PHYSICAL SCIENCES	4.00	2
19.09 TEXTILES AND CLOTHING	2.00	1	30.03 ENGINEERING AND OTHER DISCIPLINES	4.00	3
19.99 HOME ECONOMICS (OTHER)	2.00	1	30.04 HUMANITIES AND SOCIAL SCIENCES	2.00	2
20.00 VOCATIONAL HOME ECONOMICS			30.05 PEACE STUDIES	1.00	2
20.01 CONSUMER AND HOMEMAKING HOME ECONOMICS	2.00	1	30.06 SYSTEMS SCIENCE	3.50	2
20.02 CHILD CARE & GUIDANCE MGMT. & SERVICES	3.00	3	30.07 WOMEN'S STUDIES	2.33	3
20.03 CLOTHING, APPAREL, AND TEXTILES MGMT	2.33	3	30.99 MULTI/INTERDISCIPLINARY STUDIES	2.00	2
20.04 FOOD PRODUCTION, MGMT, & SERVICES	3.67	3	31.00 PARKS AND RECREATION		
20.05 HOME FURNISHING AND EQUIPMENT MGMT	2.00	1	31.01 PARKS AND RECREATION (GENERAL)	1.67	3
20.06 INSTITUTIONAL, HOME MGMT & SERVICES	3.33	3	31.02 OUTDOOR RECREATION	1.67	3
21.00 INDUSTRIAL ARTS			31.03 PARKS AND RECREATIONAL MANAGEMENT	3.33	3
21.01 INDUSTRIAL ARTS	3.00	2	31.04 WATER RESOURCES	3.00	2
22.00 LAW			31.99 PARKS AND RECREATION		
22.01 LAW	4.50	2*	32.00 BASIC SKILLS	2.00	1
23.00 LETTERS			32.01 BASIC SKILLS		
23.01 ENGLISH (GENERAL)	1.75	4	34.00 HEALTH RELATED ACTIVITIES		
23.02 CLASSICS	1.67	3	34.01 HEALTH RELATED ACTIVITIES	2.00	3
23.03 COMPARATIVE LITERATURE	1.67	3	36.00 LEISURE AND RECREATION ACTIVITIES		
23.04 COMPOSITION	2.33	3	36.01 LEISURE AND RECREATIONAL ACTIVITIES	2.00	2
23.05 CREATIVE WRITING	2.33	3	38.00 PHILOSOPHY AND RELIGION		
23.06 LINGUISTICS	2.33	3	38.01 PHILOSOPHY	1.50	4
23.07 LITERATURE, AMERICAN	1.67	3	38.02 RELIGION	1.67	3
23.08 LITERATURE, ENGLISH	1.67	3	38.99 PHILOSOPHY AND RELIGION	1.67	3
23.10 SPEECH, DEBATE, AND FORENSICS	1.67	3	39.00 THEOLOGY		
23.99 LETTERS, OTHER	1.50	2	39.01 BIBLICAL LANGUAGES	1.50	2
24.00 LIBERAL/GENERAL STUDIES			39.02 BIBLE STUDIES	1.50	2
24.01 LIBERAL/GENERAL STUDIES	3.00	2	39.03 MISSIONARY STUDIES	2.00	2
25.00 LIBRARY AND ARCHIVAL SCIENCES			39.04 RELIGIOUS EDUCATION	2.00	2
25.01 LIBRARY & ARCHIVAL SCIENCES (GENERAL)	3.00	2	39.05 RELIGIOUS MUSIC	2.00	2
25.04 LIBRARY SCIENCES	3.00	2	39.06 THEOLOGICAL STUDIES	2.00	2
25.05 MUSEOLOGY	2.00	1	39.99 THEOLOGY	2.00	2
26.00 LIFE SCIENCES			40.00 PHYSICAL SCIENCE		
26.01 BIOLOGY (GENERAL)	3.00	5	40.01 PHYSICAL SCIENCES (GENERAL)	3.00	3
26.02 BIOCHEMISTRY AND BIOPHYSICS	4.00	4	40.02 ASTRONOMY	2.67	3
26.03 BOTANY	2.75	4	40.03 ASTROPHYSICS	3.67	3

Means

≥4.50

3.51-4.49

2.51-3.50

1.51-2.50

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*

Implication

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CIP	Average	Respondents	CIP	Average	Respondents
40.00 PHYSICAL SCIENCE			45.00 SOCIAL SCIENCES		
40.04 ATMOSPHERIC SCIENCES & METEOROLOGY	3.67	3	45.08 HISTORY	2.25	4
40.05 CHEMISTRY	3.86	7	45.09 INTERNATIONAL RELATIONS	2.50	4
40.06 GEOLOGICAL SCIENCES	3.00	3	45.10 POLITICAL SCIENCE AND GOVERNMENT	2.67	6
40.07 MISCELLANEOUS PHYSICAL SCIENCES	2.50	2	45.11 SOCIOLOGY	2.33	6
40.08 PHYSICS	3.80	5	45.12 URBAN STUDIES	2.00	2
40.89 APPLIED PHYSICS	3.67	3	45.99 SOCIAL SCIENCE (NL. STUDIES, POLITICAL ECONOMY)	3.00	1
40.99 PHYSICAL SCIENCES (HEALTH SCI., MED. PHYSICS)	4.50	2	46.00 CONSTRUCTION TRADES		
41.00 SCIENCE TECHNOLOGIES			46.02 CARPENTRY	5.00	1
41.01 BIOLOGICAL TECHNOLOGIES	3.00	2	46.03 ELECTRICAL & POWER TRANS. INSTALLATION	NA	NA
41.03 PHYSICAL SCIENCE TECHNOLOGIES	4.00	2	46.05 PLUMBING, PIPEFITTING & STEAMFITTING	NA	NA
41.99 SCIENCE TECHNOLOGIES	4.00	2	46.99 CONSTRUCTION TRADES	4.50	2
42.00 PSYCHOLOGY			47.00 MECHANICS AND REPAIRERS		
42.01 PSYCHOLOGY (GENERAL)	2.80	5	47.01 ELECTRICAL/ELECTRONICS EQUIP. REPAIR	NA	NA
42.02 CLINICAL PSYCHOLOGY	4.50	2	47.02 HEAT/AIR CONDITION/REFRIGERATION MECH.	NA	NA
42.04 COMMUNITY PSYCHOLOGY	4.67	3	47.03 INDUSTRIAL EQUIPMENT MAINTENANCE & REPAIR	NA	NA
42.06 COUNSELING PSYCHOLOGY	4.50	2	47.06 VEHICLE & MOBILE EQUIP MECH & REPAIRERS	NA	NA
42.07 DEVELOPMENTAL PSYCHOLOGY	4.50	2	47.99 MECHANICS AND REPAIRERS	NA	NA
42.08 EXPERIMENTAL PSYCHOLOGY	4.50	2	48.00 PRECISION PRODUCTION		
42.09 INDUSTRIAL & ORGANIZATIONAL PSYCHOLOGY	4.50	2	48.01 DRAFTING	3.00	2
42.11 PHYSIOLOGICAL PSYCHOLOGY	4.50	2	48.02 GRAPHIC AND PRINTING COMMUNICATIONS	2.00	1
42.16 SOCIAL PSYCHOLOGY	4.50	2	48.04 PRECISION FOOD PRODUCTION	NA	NA
42.99 PSYCHOLOGY (HEALTH, SOCIAL BEHAVIORAL)	4.50	2	48.05 PRECISION METAL WORK	NA	NA
43.00 PROTECTIVE SERVICES			48.06 PRECISION WORK, ASSORTED MATERIALS	NA	NA
43.01 CRIMINAL JUSTICE	2.67	3	48.07 WOODWORKING	NA	NA
43.02 FIRE PROTECTION	3.00	1	49.00 TRANSPORTATION AND MATERIAL MOVING		
44.00 PUBLIC AFFAIRS			49.01 AIR TRANSPORTATION	NA	NA
44.01 PUBLIC AFFAIRS (GENERAL)	3.00	1	49.02 VEHICLE AND EQUIPMENT OPERATION	NA	NA
44.02 COMMUNITY SERVICES	2.50	2	49.03 WATER TRANSPORTATION	NA	NA
44.03 INTERNATIONAL PUBLIC SERVICE	3.00	2	49.99 TRANSPORTATION & MATERIAL MOVING	NA	NA
44.04 PUBLIC ADMINISTRATION	2.00	2	50.00 VISUAL AND PERFORMING ARTS		
44.05 PUBLIC POLICY STUDIES	3.00	2	50.01 VISUAL AND PERFORMING ARTS (GENERAL)	2.00	3
44.07 SOCIAL WORK	3.56	9	50.02 CRAFTS	NA	NA
44.99 PUBLIC AFFAIRS (MANUAL COMM., PUB. ADM. TECH)	NA		50.03 DANCE	NA	NA
45.00 SOCIAL SCIENCES			50.04 DESIGN	NA	NA
45.01 SOCIAL SCIENCES (GENERAL)	3.50	2	50.05 DRAMATIC ARTS	NA	NA
45.02 ANTHROPOLOGY	2.67	3	50.06 FILM ARTS (GENERAL)	NA	NA
45.03 ARCHEOLOGY	2.50	2	50.07 FINE ARTS	1.00	1
45.04 CRIMINOLOGY	3.00	4	50.08 GRAPHIC ART TECHNOLOGY	3.00	1
45.06 ECONOMICS	3.20	5	50.09 MUSIC	3.00	1
45.07 GEOGRAPHY	2.50	4	50.99 VISUAL & PERFORMING ARTS	NA	NA

Means

≥4.50
3.51-4.49
2.51-3.50
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≤1.50

Implication

Many more job opportunities than graduates available.
Slightly more job opportunities than graduates available.
About as many jobs available as graduates.
Slightly more graduates than available jobs.
Many more graduates than available jobs.
Indicates same number of respondents (or more) stated graduates typically go on to next degree.

Table 6: Demand Ratings for Specific Programs at the Doctoral/Professional Level According to CIP Numbers

CIP	Average Respondents	CIP	Average Respondents
1.00 AGRI BUSINESS & AGRICULTURE PRODUCTION		6.00 BUSINESS AND MANAGEMENT	
1.01 AGRI BUSINESS & MANAGEMENT	2.50	6.17 REAL ESTATE	4.50
1.02 AGRICULTURAL MECHANICS	3.50	6.18 SMALL BUSINESS MANAGEMENT AND OWNERSHIP	3.50
1.03 AGRICULTURAL PRODUCTION	NA	6.19 TAXATION	5.00
1.05 AGRI SERVICES & SUPPLIES	2.50	6.20 TRADE & INDUSTRIAL SUPV & MANAGEMENT	NA
1.06 HORTICULTURE AND LANDSCAPING	NA	6.99 BUSINESS AND MANAGEMENT (BUS. COMM, LAW, ADMIN)	3.50
1.07 PACKAGING	NA	7.00 BUSINESS AND OFFICE	
1.08 AGRICULTURAL AND EXTENSION EDUCATION	NA	7.01 ACCOUNTING, BOOKKEEPING & RELATED PROGRAMS	4.00
1.99 AGRIBUSINESS & AGRIPRO	NA	7.02 BANKING AND RELATED FINANCIAL PROGRAMS	4.00
2.00 AGRICULTURAL SCIENCES		7.03 BUSINESS DATA PROCESSING & RELATED PROGRAMS	5.00
2.01 AGRICULTURAL SCIENCES (GENERAL)	3.33	7.04 OFFICE SUPERVISION AND MANAGEMENT	3.00
2.02 ANIMAL SCIENCES	NA	7.06 SECRETARIAL AND RELATED PROGRAMS	5.00
2.03 FOOD SCIENCES	NA	7.07 TYPING, GENERAL OFFICE	5.00
2.04 PLANT SCIENCES	NA	7.99 BUSINESS AND OFFICE	NA
2.05 SOIL SCIENCES	3.33	8.00 MARKETING AND DISTRIBUTION	
3.00 RENEWABLE NATURAL RESOURCES		8.01 APPAREL AND ACCESSORIES MARKETING	3.00
3.01 RNR (RESOURCE DEVELOPMENT, RESOURCES POLICY)	NA	8.02 BUSINESS AND PERSONAL SERVICES MARKETING	3.00
3.02 CONSERVATION & REGULATION	3.00	8.04 FINANCIAL SERVICES MARKETING	3.50
3.03 FISHING AND FISHERIES	2.67	8.07 GENERAL MARKETING	3.00
3.04 FORESTRY PRODUCTION & PROCESSING	3.00	8.08 HOME AND OFFICE PRODUCTS MARKETING	4.00
3.05 FORESTRY AND RELATED SCIENCES	3.00	8.09 HOSPITALITY AND RECREATION MARKETING	4.00
3.06 WILDLIFE MANAGEMENT	NA	8.10 INSURANCE MARKETING	3.67
3.99 RNR (OUTDOOR REC., ECOLOGY, N.R. ECONOMICS)	3.00	8.11 TRANSPORTATION AND TRAVEL MARKETING	3.50
4.00 ARCHITECTURE AND ENVIRONMENTAL DESIGN		8.12 VEHICLES AND PETROLEUM MARKETING	3.00
4.01 ARCHITECTURE & ENVIRONMENTAL DESIGN (GENERAL)	NA	8.99 MARKETING AND DISTRIBUTION (OTHER)	3.50
4.02 ARCHITECTURE	4.50	9.00 COMMUNICATIONS	
4.03 CITY, COMMUNITY, AND REGIONAL PLANNING	4.00	9.01 COMMUNICATIONS (SPEECH, COMM ARTS, GENERAL)	2.67
4.04 ENVIRONMENTAL DESIGN	NA	9.02 ADVERTISING	4.33
4.05 INTERIOR DESIGN	2.75	9.04 JOURNALISM (MASS COMMUNICATIONS)	3.00
4.06 LANDSCAPE ARCHITECTURE	3.50	9.05 PUBLIC RELATIONS	3.67
5.00 AREA AND ETHNIC STUDIES		9.99 COMMUNICATIONS (ENVIRONMENTAL, WRITTEN, SPECIAL)	3.00
5.01 AREA STUDIES	NA	10.00 COMMUNICATION TECHNOLOGIES	
5.02 ETHNIC STUDIES	NA	10.01 COMMUNICATION TECHNOLOGIES	4.00
6.00 BUSINESS AND MANAGEMENT		11.00 COMPUTER AND INFORMATION SCIENCES	
6.01 BUSINESS AND MANAGEMENT (GENERAL)	4.20	11.01 COMPUTER & INFORMATION SCIENCES (GENERAL)	4.33
6.02 ACCOUNTING	4.50	11.02 COMPUTER PROGRAMING	4.40
6.03 BANKING AND FINANCE	4.50	11.03 DATA PROCESSING	4.25
6.04 BUSINESS ADMINISTRATION & MANAGEMENT	4.25	11.04 INFORMATION SCIENCES AND SYSTEMS	4.50
6.05 BUSINESS ECONOMICS	NA	11.05 SYSTEMS ANALYSIS	4.50
6.06 HUMAN RESOURCES DEVELOPMENT	3.67	11.99 COMPUTER AND INFORMATION SCIENCES (SPECIAL PGMS)	5.00
6.07 INSTITUTIONAL MANAGEMENT	4.50	12.00 CONSUMER, PERSONAL, AND MISC. SERVICES	
6.08 INSURANCE AND RISK MANAGEMENT	5.00	12.03 FUNERAL SERVICES	5.00
6.09 INTERNATIONAL BUSINESS MANAGEMENT	5.00	12.04 PERSONAL SERVICES	NA
6.10 INVESTMENTS AND SECURITIES	4.00	13.00 EDUCATION	
6.11 LABOR/INDUSTRIAL RELATIONS	4.67	13.01 EDUCATION (GENERAL)	3.33
6.12 MANAGEMENT INFORMATION SYSTEMS	4.00	13.02 BILINGUAL/BICULTURAL EDUCATION	4.00
6.13 MANAGEMENT SCIENCE	3.50	13.03 CURRICULUM AND INSTRUCTION	2.50
6.14 MARKETING MANAGEMENT AND RESEARCH	4.00	13.04 EDUCATION ADMINISTRATION	3.25
6.15 ORGANIZATIONAL BEHAVIOR	3.50	13.05 EDUCATIONAL MEDIA	3.50
6.16 PERSONNEL MANAGEMENT		13.06 EVALUATION AND RESEARCH	4.50

Means

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Implication

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Table 6: (Continued) Demand Ratings for Specific Programs at the Doctoral/Professional Level According to CIP Numbers

CIP	Average Respondents	CIP	Average Respondents
13.00 EDUCATION		14.00 ENGINEERING	
13.08 SCHOOL PSYCHOLOGY	5.00	14.20 METALLURGICAL ENGINEERING	4.80
13.09 SOCIAL FOUNDATIONS	2.00	14.21 MINING AND MINERAL ENGINEERING	NA
13.10 SPECIAL EDUCATION	4.33	14.22 NAVAL ARCHITECTURE & MARINE ENGINEERING	NA
13.11 STUDENT COUNSELING & PERSONNEL SERVICES	4.00	14.23 NUCLEAR ENGINEERING	NA
13.12 TEACHER EDUCATION, GENERAL PROGRAMS	3.50	14.25 PETROLEUM ENGINEERING	NA
13.1201 ADULT AND CONTINUING EDUCATION	3.00	14.27 SYSTEMS ENGINEERING	NA
13.1202 ELEMENTARY EDUCATION	3.00	14.99 ENGINEERING (OTHER: PLASTICS, CAD, ENG MGT)	4.00
13.1203 JUNIOR HIGH EDUCATION	3.50	15.00 ENGINEERING AND RELATED TECHNOLOGIES	1
13.1204 EARLY CHILDHOOD/PRE-ELEMENTARY	3.00	15.01 ARCHITECTURAL TECHNOLOGIES	NA
13.1205 SENIOR HIGH EDUCATION	3.00	15.02 CIVIL TECHNOLOGIES	NA
13.1300 TEACHER EDUC., SPEC. SUBJECT AREAS	3.00	15.03 ELECTRICAL AND ELECTRONIC TECHNOLOGIES	NA
13.1301 AGRICULTURAL EDUCATION	3.50	15.04 ELECTROMECHANICAL, INSTRUMENT AND MAINTENANCE TECHNOLOGIES	1
13.1302 ART EDUCATION	1.50	15.05 ENVIRONMENTAL CONTROL TECHNOLOGIES	1
13.1303 BUSINESS EDUCATION	3.00	15.06 INDUSTRIAL PRODUCTION TECHNOLOGIES	1
13.1304 DRIVER AND SAFETY EDUCATION	3.50	15.07 QUALITY CONTROL & SAFETY TECHNOLOGIES	1
13.1305 ENGLISH	3.00	15.08 MECHANICAL & RELATED TECHNOLOGIES	1
13.1306 FOREIGN LANGUAGES	3.00	15.09 MINING AND PETROLEUM TECHNOLOGIES	1
13.1307 HEALTH EDUCATION	2.00	15.99 ENGINEERING AND RELATED TECHNOLOGIES	1
13.1308 HOME ECONOMICS	1.00	16.00 FOREIGN LANGUAGES	1
13.1309 INDUSTRIAL ARTS	1.00	16.01 FOREIGN LANGUAGES, MULTIPLE EMPHASIS	NA
13.1310 MARKETING AND DISTRIBUTION	2.00	16.03 ASIATIC LANGUAGES	NA
13.1311 MATHEMATICS	3.00	16.04 BALTO-SLAVIC LANGUAGES	NA
13.1312 MUSIC	2.50	16.05 GERMANIC LANGUAGES	NA
13.1314 PHYSICAL EDUCATION	1.50	16.06 GREEK	NA
13.1315 READING	3.00	16.08 IRANIAN LANGUAGES	NA
13.1316 SCIENCE EDUCATION	1.00	16.09 ITALIC LANGUAGES	NA
13.1317 SOCIAL SCIENCE/STUDIES	1.00	16.11 SEMETIC LANGUAGES	NA
13.1319 TECHNICAL EDUCATION	4.00	16.99 FOREIGN LANGUAGES, OTHER	NA
13.1320 TRADE AND INDUSTRIAL	5.00	17.00 ALLIED HEALTH	1
13.14 TEACH ENG AS A 2ND LANG/FOREIGN LANG	4.50	17.01 DENTAL SERVICES	5.00
13.99 EDUCATION, OTHER	NA	17.02 DIAGNOSTIC AND TREATMENT SERVICES	1
14.00 ENGINEERING		17.03 MEDICAL LABORATORY TECHNOLOGIES	5.00
14.01 ENGINEERING, GENERAL	4.50	17.04 MENTAL HEALTH/HUMAN SERVICES	1
14.02 AEROSPACE/AERONAUTICAL/ASTRONAUTICAL	NA	17.05 MISCELLANEOUS ALLIED HEALTH SERVICES	1
14.03 AGRICULTURAL ENGINEERING	NA	17.06 NURSING-RELATED SERVICES	NA
14.05 BIOENGINEERING & BIOMEDICAL ENGINEERING	NA	17.07 OPHTHALMIC SERVICES	4.00
14.07 CHEMICAL ENGINEERING	4.33	17.08 REHABILITATION SERVICES	5.00
14.08 CIVIL ENGINEERING	3.83	17.99 ALLIED HEALTH, OTHER	1
14.09 COMPUTER ENGINEERING	4.43	18.00 HEALTH SCIENCES	5.00
14.10 ELECTRICAL/ELECTRONICS/COMMUNICATIONS	4.60	18.01 AUDIOLOGY AND SPEECH PATHOLOGY	NA
14.11 ENGINEERING MECHANICS	NA	18.02 BASIC CLINICAL HEALTH SCIENCES	NA
14.12 ENGINEERING PHYSICS	NA	18.03 CHIROPRACTIC	NA
14.13 ENGINEERING SCIENCES	NA	18.04 DENTISTRY	NA
14.14 ENVIRONMENTAL HEALTH ENGINEERING	5.00	18.06 EPIDEMIOLOGY	NA
14.15 GEOLOGICAL ENGINEERING	NA	18.07 HEALTH CARE ADMINISTRATION	NA
14.17 INDUSTRIAL ENGINEERING	4.80	18.09 MEDICAL LABORATORY	NA
14.18 MATERIALS ENGINEERING	NA	18.10 MEDICINE	NA
14.19 MECHANICAL ENGINEERING	4.43		

Means

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Implication

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Table 6: (Continued) Demand Ratings for Specific Programs at the Doctoral/Professional Level According to CIP Numbers

CIP	Average	Respondents	CIP	Average	Respondents
18.00 HEALTH SCIENCES			26.00 LIFE SCIENCES		
18.11 NURSING	4.40	5	26.04 CELL AND MOLECULAR BIOLOGY	NA	
18.12 OPTOMETRY	NA		26.05 MICROBIOLOGY	NA	
18.13 OSTEOPATHIC MEDICINE	NA		26.06 MISC. SPECIALIZED AREAS, LIFES SCIENCES	NA	
18.14 PHARMACY	5.00	1	26.07 ZOOLOGY	NA	
18.16 POPULATION AND FAMILY PLANNING	NA		26.99 LIFE SCIENCES (OTHER)	NA	
18.24 VETERINARY MEDICINE	NA		27.00 MATHEMATICS	3.40	5
18.99 HEALTH SCIENCES, OTHER	5.00	1	27.01 MATHEMATICS (GENERAL)	NA	
19.00 HOME ECONOMICS			27.02 ACTUARIAL SCIENCES	NA	
19.01 HOME ECONOMICS (GENERAL)	NA		27.03 APPLIED MATHEMATICS	NA	
19.02 BUSINESS HOME ECONOMICS	3.00	1	27.04 PURE MATHEMATICS	3.60	5
19.03 FAMILY AND COMMUNITY SERVICES	3.00	1	27.05 STATISTICS	3.00	2
19.04 FAMILY/CONSUMER RESOURCE MANAGEMENT	3.00	1	27.99 MATHEMATICS		
19.05 FOOD SCIENCES AND HUMAN NUTRITION	3.50	2	28.00 MILITARY SCIENCES	3.00	1
19.06 HUMAN ENVIRONMENT AND HOUSING	3.00	2	28.03 MILITARY SCIENCES (ARMY)		
19.07 INDIVIDUAL AND FAMILY DEVELOPMENT	NA		30.00 MULTI/INTERDISCIPLINARY STUDIES		
19.08 INTERNATIONAL/COMPARATIVE HOME ECON.	NA		30.01 BIOLOGICAL AND PHYSICAL SCIENCES	NA	
19.09 TEXTILES AND CLOTHING	NA		30.03 ENGINEERING AND OTHER DISCIPLINES	NA	
19.99 HOME ECONOMICS (OTHER)	NA		30.04 HUMANITIES AND SOCIAL SCIENCES	NA	
20.00 VOCATIONAL HOME ECONOMICS			30.05 PEACE STUDIES	NA	
20.01 CONSUMER AND HOME/MAKING HOME ECONOMICS	2.00	1	30.06 SYSTEMS SCIENCE	NA	
20.02 CHILD CARE & GUIDANCE MGMT. & SERVICES	4.00	1	30.07 WOMEN'S STUDIES	NA	
20.03 CLOTHING, APPAREL, AND TEXTILES MGMT	2.00	1	30.99 MULTI/INTERDISCIPLINARY STUDIES		
20.04 FOOD PRODUCTION, MGMT, & SERVICES	3.50	2	31.00 PARKS AND RECREATION		
20.05 HOME FURNISHING AND EQUIPMENT MGMT	NA		31.01 PARKS AND RECREATION (GENERAL)	1.50	2
20.06 INSTITUTIONAL, HOME MGMT & SERVICES	2.00	1	31.02 OUTDOOR RECREATION	2.00	2
21.00 INDUSTRIAL ARTS			31.03 PARKS AND RECREATIONAL MANAGEMENT	2.00	2
21.01 INDUSTRIAL ARTS	3.50	2	31.04 WATER RESOURCES	3.50	2
22.00 LAW			31.99 PARKS AND RECREATION	3.50	2
22.01 LAW	NA		32.00 BASIC SKILLS		
23.00 LETTERS			32.01 BASIC SKILLS	2.00	1
23.01 ENGLISH (GENERAL)	2.50	4	34.00 HEALTH RELATED ACTIVITIES		
23.02 CLASSICS	NA		34.01 HEALTH RELATED ACTIVITIES	2.00	2
23.03 COMPARATIVE LITERATURE	NA		36.00 LEISURE AND RECREATION ACTIVITIES		
23.04 COMPOSITION	NA		36.01 LEISURE AND RECREATIONAL ACTIVITIES	2.00	2
23.05 CREATIVE WRITING	NA		38.00 PHILOSOPHY AND RELIGION		
23.06 LINGUISTICS	NA		38.01 PHILOSOPHY	NA	
23.07 LITERATURE, AMERICAN	NA		38.02 RELIGION	NA	
23.08 LITERATURE, ENGLISH	NA		38.99 PHILOSOPHY AND RELIGION	NA	
23.10 SPEECH, DEBATE, AND FORENSICS	NA		39.00 THEOLOGY		
23.99 LETTERS, OTHER	NA		39.01 BIBLICAL LANGUAGES	NA	
24.00 LIBERAL/GENERAL STUDIES			39.02 BIBLE STUDIES	NA	
24.01 LIBERAL/GENERAL STUDIES	3.00	2	39.03 MISSIONARY STUDIES	NA	
25.00 LIBRARY AND ARCHIVAL SCIENCES			39.04 RELIGIOUS EDUCATION	NA	
25.01 LIBRARY & ARCHIVAL SCIENCES (GENERAL)	NA		39.05 RELIGIOUS MUSIC	NA	
25.04 LIBRARY SCIENCES	NA		39.06 THEOLOGICAL STUDIES	NA	
25.05 MUSEOLOGY	NA		39.99 THEOLOGY	NA	
26.00 LIFE SCIENCES			40.00 PHYSICAL SCIENCE		
26.01 BIOLOGY (GENERAL)	3.20	5	40.01 PHYSICAL SCIENCES (GENERAL)	NA	
26.02 BIOCHEMISTRY AND BIOPHYSICS	4.25	4	40.02 ASTRONOMY	2.67	3
26.03 BOTANY	3.25	4	40.03 ASTROPHYSICS	NA	

Means

≥4.50
3.51-4.49
2.51-3.50
1.51-2.50
≤1.50

Implication

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About as many jobs available as graduates.
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Table 6: (Continued) Demand Ratings for Specific Programs at the Doctoral/Professional Level According to CIP Numbers

CIP	Average	Respondents	CIP	Average	Respondents
40.00 PHYSICAL SCIENCE			45.00 SOCIAL SCIENCES		
40.04 ATMOSPHERIC SCIENCES & METEOROLOGY	3.67	3	45.08 HISTORY		NA
40.05 CHEMISTRY	4.00	6	45.09 INTERNATIONAL RELATIONS		NA
40.06 GEOLOGICAL SCIENCES	NA		45.10 POLITICAL SCIENCE AND GOVERNMENT		NA
40.07 MISCELLANEOUS PHYSICAL SCIENCES	NA		45.11 SOCIOLOGY		NA
40.08 PHYSICS	4.00	4	45.12 URBAN STUDIES		NA
40.89 APPLIED PHYSICS	NA		45.99 SOCIAL SCIENCE (MT. STUDIES, POLITICAL ECONOMY)	3.00	1
40.99 PHYSICAL SCIENCES (HEALTH SCI., MED. PHYSICS)	NA		46.00 CONSTRUCTION TRADES		
41.00 SCIENCE TECHNOLOGIES			46.02 CARPENTRY		5.00
41.01 BIOLOGICAL TECHNOLOGIES	3.50	2	46.03 ELECTRICAL & POWER TRANS. INSTALLATION		NA
41.03 PHYSICAL SCIENCE TECHNOLOGIES	4.00	2	46.05 PLUMBING, PIPEFITTING & STEAMFITTING		NA
41.99 SCIENCE TECHNOLOGIES	NA		46.99 CONSTRUCTION TRADES		5.00
42.00 PSYCHOLOGY			47.00 MECHANICS AND REPAIRERS		
42.01 PSYCHOLOGY (GENERAL)	3.40	5	47.01 ELECTRICAL/ELECTRONICS EQUIP. REPAIR		NA
42.02 CLINICAL PSYCHOLOGY	NA		47.02 HEAT/AIR CONDITION/REFRIGERATION MECH.		NA
42.04 COMMUNITY PSYCHOLOGY	NA		47.03 INDUSTRIAL EQUIPMENT MAINTENANCE & REPAIR		NA
42.06 COUNSELING PSYCHOLOGY	NA		47.06 VEHICLE & MOBILE EQUIP MECH & REPAIRERS		NA
42.07 DEVELOPMENTAL PSYCHOLOGY	NA		47.99 MECHANICS AND REPAIRERS		NA
42.08 EXPERIMENTAL PSYCHOLOGY	NA		48.00 PRECISION PRODUCTION		
42.09 INDUSTRIAL & ORGANIZATIONAL PSYCHOLOGY	NA		48.01 DRAFTING		3.00
42.11 PHYSIOLOGICAL PSYCHOLOGY	NA		48.02 GRAPHIC AND PRINTING COMMUNICATIONS		NA
42.16 SOCIAL PSYCHOLOGY	NA		48.04 PRECISION FOOD PRODUCTION		NA
42.99 PSYCHOLOGY (HEALTH, SOCIAL BEHAVIORAL)	NA		48.05 PRECISION METAL WORK		NA
43.00 PROTECTIVE SERVICES			48.06 PRECISION WORK, ASSORTED MATERIALS		NA
43.01 CRIMINAL JUSTICE	3.00	2	48.07 WOODWORKING		NA
43.02 FIRE PROTECTION	4.00	1	49.00 TRANSPORTATION AND MATERIAL MOVING		NA
44.00 PUBLIC AFFAIRS			49.01 AIR TRANSPORTATION		NA
44.01 PUBLIC AFFAIRS (GENERAL)	NA		49.02 VEHICLE AND EQUIPMENT OPERATION		NA
44.02 COMMUNITY SERVICES	NA		49.03 WATER TRANSPORTATION		NA
44.03 INTERNATIONAL PUBLIC SERVICE	NA		49.99 TRANSPORTATION & MATERIAL MOVING		NA
44.04 PUBLIC ADMINISTRATION	NA		50.00 VISUAL AND PERFORMING ARTS		NA
44.05 PUBLIC POLICY STUDIES	NA		50.01 VISUAL AND PERFORMING ARTS (GENERAL)		NA
44.07 SOCIAL WORK	3.25	4	50.02 CRAFTS		NA
44.99 PUBLIC AFFAIRS (MANUAL COMM., PUB. ADM. TECH)	NA		50.03 DANCE		NA
45.00 SOCIAL SCIENCES			50.04 DESIGN		NA
45.01 SOCIAL SCIENCES (GENERAL)	NA		50.05 DRAMATIC ARTS		NA
45.02 ANTHROPOLOGY	NA		50.06 FILM ARTS (GENERAL)		NA
45.03 ARCHEOLOGY	NA		50.07 FINE ARTS		NA
45.04 CRIMINOLOGY	3.00	2	50.08 GRAPHIC ART TECHNOLOGY		NA
45.06 ECONOMICS	3.00	3	50.09 MUSIC		NA
45.07 GEOGRAPHY	NA		50.99 VISUAL & PERFORMING ARTS		NA

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The Collegiate Employment Research Institute was established by Michigan's Legislature in 1984. The Institute is charged with the task of examining issues on career development and employment for college graduates. Various projects are underway, including the study covered in this report, to provide information to educators and counselors for program development. If you have any questions on this study or any Institute project, please contact the Institute directly.

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