

December  
2019

**CONNECTING UA MAJORS TO  
IN-DEMAND JOBS IN OHIO**



The University of Akron  
Career Services

Student Union 211 | 330.972.7747 | [Career@uakron.edu](mailto:Career@uakron.edu)



# Connecting UA Majors to In-Demand Jobs in Ohio

December 2019 | Contents

## Section A: In-Demand Jobs

### OhioMeansJobs In-Demand Occupations

- In-Demand Occupations Requiring a Bachelor's Degree
- In-Demand Occupations Requiring a Master's Degree
- In-Demand Occupations Requiring an Associate's Degree
- In-Demand Occupations Requiring a Professional or Doctoral Degree

## Section B: Majors → Jobs

### UA Majors and Degrees Aligned with In-Demand Occupations in Ohio\*

- In-Demand Occupations Requiring a Bachelor's Degree
- In-Demand Occupations Requiring a Master's Degree
- In-Demand Occupations Requiring an Associate's Degree
- In-Demand Occupations Requiring a Professional or Doctoral Degree

## Section C: Jobs → Majors

### In-Demand Occupations in Ohio Aligned with UA Majors and Degrees\*

- In-Demand Occupations Requiring a Bachelor's Degree
- In-Demand Occupations Requiring a Master's Degree
- In-Demand Occupations Requiring an Associate's Degree
- In-Demand Occupations Requiring a Professional or Doctoral Degree

## Section D: UA Majors

### The University of Akron Majors and Degrees

- Bachelor's Degrees
- Master's Degrees
- Associate's Degrees
- Certificates
- Professional or Doctoral Degrees

*\*This document is intended to be used as a resource guide to help align In-Demand Occupations with suggested UA Majors and Degrees. For additional guidance in exploring majors and career paths, please contact UA Career Services*



The University of Akron  
Career Services

Student Union 211 | 330.972.7747 | Career@uakron.edu



## **Section A: In-Demand Jobs**

### **OhioMeansJobs: In-Demand Occupations**

In-Demand Occupations Requiring a Bachelor's Degree

In-Demand Occupations Requiring a Master's Degree

In-Demand Occupations Requiring an Associate's Degree

In-Demand Occupations Requiring a Professional or  
Doctoral Degree



# In-Demand Occupations Requiring a Bachelor's Degree

## Listed According to Job Openings

Listed below are the in-demand occupations statewide that require a bachelor's degree. Many of these occupations also require some combination of on-the-job training and/or relevant work experience. Discuss these options with your OhioMeansJobs Center's workforce specialist.

Occupation Title	Starting Wage	Median Annual Wage	On-the-Job Training	Relevant Work Experience	Annual Job Openings*
Architectural and Engineering Managers	\$93,980	\$132,125	None	5 years or more	503
Computer and Information Systems Managers	\$84,570	\$128,189	None	5 years or more	1,058
Marketing Managers	\$76,580	\$125,610	None	5 years or more	532
Sales Managers	\$74,180	\$124,459	None	Less than 5 years	1,072
Natural Sciences Managers	\$81,150	\$124,048	None	5 years or more	113
Financial Managers	\$73,450	\$121,356	None	5 years or more	2,052
Purchasing Managers	\$78,330	\$120,041	None	5 years or more	220
Aerospace Engineers	\$79,350	\$112,970	None	None	330
Industrial Production Managers	\$64,770	\$102,510	None	5 years or more	738
Software Developers, Systems Software	\$68,820	\$101,149	None	None	378
Managers, All Other <sup>1</sup>	\$63,160	\$100,277	None	Less than 5 years	1,896
Computer Network Architects	\$62,560	\$98,795	None	5 years or more	339

Occupation Title	Starting Wage	Median Annual Wage	On-the-Job Training	Relevant Work Experience	Annual Job Openings*
General and Operations Managers	\$50,180	\$98,760	None	5 years or more	5,791
Electronics Engineers, Except Computer	\$59,560	\$97,936	None	None	258
Actuaries	\$62,670	\$96,206	Long-term on-the-job training	None	99
Chemical Engineers	\$59,970	\$96,196	None	None	102
Medical and Health Services Managers	\$65,100	\$93,817	None	Less than 5 years	1,570
Construction Managers	\$63,620	\$93,643	Moderate-term on-the-job training	None	1,204
Software Developers, Applications	\$58,530	\$93,422	None	None	3,011
Database Administrators	\$52,810	\$92,092	None	None	309
Engineers, All Other <sup>1</sup>	\$52,550	\$91,478	None	None	527
Manufacturing Engineers <sup>1</sup>	\$52,550	\$91,478	None	None	527
Robotics Engineers <sup>1</sup>	\$52,550	\$91,478	None	None	527
Solar Energy Systems Engineers <sup>1</sup>	\$52,550	\$91,478	None	None	527
Information Security Analysts	\$59,300	\$91,467	None	Less than 5 years	292
Health & Safety Engineers, ex. Mining Safety	\$63,010	\$90,034	None	None	36
Sales Engineers	\$57,640	\$89,646	Moderate-term on-the-job training	None	377
Administrative Services Managers	\$58,950	\$87,292	None	Less than 5 years	884
Computer Systems Analysts	\$60,630	\$86,074	None	None	1,867
Electrical Engineers	\$56,130	\$85,756	None	None	446
Business Intelligence Analysts <sup>1</sup>	\$45,130	\$84,573	None	None	489
Computer Occupations, All Other <sup>1</sup>	\$45,130	\$84,573	None	None	489

Occupation Title	Starting Wage	Median Annual Wage	On-the-Job Training	Relevant Work Experience	Annual Job Openings*
Computer Systems Engineers/Architects <sup>1</sup>	\$45,130	\$84,573	None	None	489
Information Technology Project Managers <sup>1</sup>	\$45,130	\$84,573	None	None	489
Search Marketing Strategists <sup>1</sup>	\$45,130	\$84,573	None	None	489
Software Quality Assurance Engineers and Testers <sup>1</sup>	\$45,130	\$84,573	None	None	489
Industrial Engineers	\$58,460	\$82,573	None	None	1,102
Operations Research Analysts	\$55,870	\$81,437	None	None	346
Civil Engineers	\$53,870	\$80,219	None	None	653
Management Analysts	\$46,500	\$79,873	None	Less than 5 years	2,219
Mechanical Engineers	\$56,120	\$79,268	None	None	1,165
Sales Rep., Wholesale & Mfg, Tech./Sci. Prod.	\$41,320	\$77,948	Moderate-term on-the-job training	None	1,999
Financial Quantitative Analysts <sup>1</sup>	\$49,110	\$77,750	Moderate-term on-the-job training	None	567
Financial Specialists, All Other <sup>1</sup>	\$49,110	\$77,750	Moderate-term on-the-job training	None	567
Network and Comp. Systems Admins	\$51,350	\$76,954	None	None	861
Personal Financial Advisors	\$43,300	\$76,441	Long-term on-the-job training	None	780
Logisticians	\$50,900	\$74,519	None	None	614
Computer Programmers	\$43,610	\$74,488	None	None	241
Financial Examiners	\$49,370	\$74,139	Long-term on-the-job training	None	317
Financial Analysts	\$51,430	\$73,903	None	None	914
Social and Community Service Managers	\$47,010	\$69,875	None	Less than 5 years	505
Chemists	\$46,780	\$69,084	None	None	390

Occupation Title	Starting Wage	Median Annual Wage	On-the-Job Training	Relevant Work Experience	Annual Job Openings*
Business Operations Specialists, All Other <sup>1</sup>	\$40,610	\$67,746	None	None	3,401
Energy Auditors <sup>1</sup>	\$40,610	\$67,746	None	None	3,401
Loan Officers	\$37,250	\$66,556	Moderate-term on-the-job training	None	1,158
Accountants and Auditors	\$45,290	\$66,412	None	None	4,493
Registered Nurses	\$52,780	\$65,707	None	None	8,848
Compl. Off., ex. Agric, Con, Hlth/Safety, & Trans.	\$38,850	\$63,699	Moderate-term on-the-job training	None	645
Cost Estimators	\$39,580	\$62,312	Moderate-term on-the-job training	None	1,211
Purchasing Agents, ex. Whole., Retail, & Farm <sup>2</sup>	‡	\$62,120	Moderate-term on-the-job training	None	1,013
Market Research Analysts and Marketing Specialists	\$38,110	\$61,593	None	None	2,766
Public Relations Specialists	\$36,870	\$60,272	None	None	764
Compensation, Benefits, and Job Analysis Specialists	\$39,280	\$60,051	None	Less than 5 years	314
Securities/Commodities/Fin. Serv. Sales Agents	\$34,530	\$59,554	Moderate-term on-the-job training	None	1,103
Human Resource Specialists	\$38,200	\$59,424	None	None	2,079
Training and Development Specialists	\$34,990	\$57,976	None	Less than 5 years	1,007
Appraisers and Assessors of Real Estate	\$29,300	\$57,924	Long-term on-the-job training	None	198
Fundraisers	\$31,710	\$55,458	None	None	521
Medical and Clinical Laboratory Technologists <sup>2</sup>	‡	\$51,770	None	None	504
Graphic Designers	\$30,260	\$47,837	None	None	837
Clergy	\$29,320	\$46,025	Moderate-term on-the-job training	None	2,168
Education Admin., Pre & Child Care Center/Prog.	\$29,950	\$45,151	None	Less than 5 years	258

Occupation Title	Starting Wage	Median Annual Wage	On-the-Job Training	Relevant Work Experience	Annual Job Openings*
Child, Family, and School Social Workers	\$31,100	\$43,723	None	None	1,222
Substance Abuse & Behavioral Dis. Counselors <sup>2</sup>	‡	\$43,300	None	None	395

\*Statewide “Annual Job Openings” occupational projections - Bureau of Labor Market Information

§ - “Relevant Work Experience” data unavailable | ‡ - “Starting Wage” data unavailable

<sup>1</sup> - Wage was calculated by multiplying the hourly wage by 2,080 to approximate an annual wage | <sup>2</sup> - National wage is displayed as the state wage data is unavailable





# In-Demand Occupations Requiring a Master's Degree

## Listed According to Job Openings

Listed below are the in-demand occupations statewide that require a master's degree. Many of these occupations also require some combination of on-the-job training and/or relevant work experience. Discuss these options with your OhioMeansJobs Center's workforce specialist.

Occupation Title	Starting Wage	Median Annual Wage	On-the-Job Training	Relevant Work Experience	Annual Job Openings*
Physician Assistants	\$78,810	\$108,426	None	None	294
Nurse Practitioners	\$86,580	\$103,380	None	None	574
Occupational Therapists	\$62,350	\$86,299	None	None	367
Speech-Language Pathologists	\$50,080	\$76,136	Internship/residency	None	375
Medical and Public Health Social Workers	\$38,520	\$54,786	Internship/residency	None	1,174
Mental Health Counselors <sup>2</sup>	‡	\$43,300	Internship/residency	None	700
Mental Health and Substance Abuse Social Workers	\$30,400	\$41,184	Internship/residency	None	641
Rehabilitation Counselors	\$24,240	\$35,289	None	None	618

\*Statewide "Annual Job Openings" occupational projections - Bureau of Labor Market Information

§ - "Relevant Work Experience" data unavailable | ‡ - "Starting Wage" data unavailable

<sup>1</sup> - Wage was calculated by multiplying the hourly wage by 2,080 to approximate an annual wage | <sup>2</sup> - National wage is displayed as the state wage data is unavailable



# In-Demand Occupations Requiring an Associate's Degree

## Listed According to Job Openings

Listed below are the in-demand occupations statewide that require an associate's degree. Many of these occupations also require some combination of on-the-job training and/or relevant work experience. Discuss these options with your OhioMeansJobs Center's workforce specialist.

Occupation Title	Starting Wage	Median Annual Wage	On-the-Job Training	Relevant Work Experience	Annual Job Openings*
Dental Hygienists	\$54,320	\$70,763	None	None	578
Diagnostic Medical Sonographers	\$52,100	\$65,922	None	None	165
Web Developers	\$36,100	\$63,608	None	\$	294
Electrical and Electronic Engineering Technicians	\$39,150	\$62,984	None	None	203
Occupational Therapy Assistants	\$47,770	\$61,583	None	None	576
Physical Therapist Assistants	\$45,850	\$60,676	None	None	1,005
Computer Network Support Specialists	\$38,350	\$58,747	None	None	776
Radiologic Technologists	\$43,220	\$57,795	None	None	552
Respiratory Therapists	\$44,680	\$57,754	None	None	504
Electro-Mechanical Technicians	\$39,800	\$57,550	None	None	35
Industrial Engineering Technicians	\$38,840	\$56,096	None	None	275
Mechanical Engineering Technicians	\$40,570	\$55,185	None	None	218



## In-Demand Occupations Requiring a Professional and Doctoral Degree

### Listed According to Job Openings

Listed below are the in-demand occupations statewide that require a master's degree. Many of these occupations also require some combination of on-the-job training and/or relevant work experience. Discuss these options with your OhioMeansJobs Center's workforce specialist.

Occupation Title	Starting Wage	Median Annual Wage	On-the-Job Training	Relevant Work Experience	Annual Job Openings*
Physicians and Surgeons, All Other <sup>2</sup>	\$91,560	\$206,920	Internship/residency	None	534
Dentists, General	\$94,910	\$192,811	None	None	158
Pharmacists	\$82,460	\$124,628	None	None	628
Lawyers	\$57,470	\$100,842	None	None	862
Physical Therapists	\$65,800	\$89,011	None	None	537
Clinical, Counseling, and School Psychologists	\$45,750	\$74,641	Internship/residency	None	326
Medical Scientists, Except Epidemiologists	\$49,060	\$69,442	None	None	426

\*Statewide "Annual Job Openings" occupational projections - Bureau of Labor Market Information

§ - "Relevant Work Experience" data unavailable | ‡ - "Starting Wage" data unavailable

<sup>1</sup> - Wage was calculated by multiplying the hourly wage by 2,080 to approximate an annual wage | <sup>2</sup> - National wage is displayed as the state wage data is unavailable

## **Section B: Majors → Jobs**

### **UA Majors and Degrees Aligned with In-Demand Occupations in Ohio**

UA Bachelor's Degrees and Corresponding In-Demand Occupations

UA Master's Degrees and Corresponding In-Demand Occupations

UA Associate's Degrees and Corresponding In-Demand Occupations

UA Doctorate or Professional Degrees and Corresponding In-Demand Occupations

# UA Bachelor's Degree and Corresponding In-Demand Occupations

UA Bachelor's Degree	Corresponding In-Demand Occupation(s)
<b>Accounting</b>	<ul style="list-style-type: none"> <li>• Accountants and Auditors</li> <li>• Actuaries</li> <li>• Business Intelligence Analysis</li> <li>• Cost Estimators</li> <li>• Financial Analysts</li> <li>• Financial Examiners</li> <li>• Financial Managers</li> <li>• Financial Specialists (All Other)</li> <li>• Personal Financial Advisors</li> <li>• Securities/Commodities/Fin. Serv. Sales Agents</li> </ul>
<b>Aerospace Systems Engineering</b>	<ul style="list-style-type: none"> <li>• Aerospace Engineers</li> </ul>
<b>Applied Mathematics</b>	<ul style="list-style-type: none"> <li>• Actuaries</li> <li>• Appraisers and Assessors of Real Estate</li> <li>• Business Intelligence Analysis</li> <li>• Compl. Off., ex. Agric, Con, Hlth/Safety, &amp; Trans.</li> <li>• Cost Estimators</li> <li>• Financial Analysts</li> <li>• Financial Qualitative Analysis</li> <li>• Financial Specialists (All Other)</li> <li>• Loan Officers</li> <li>• Management Analysis</li> <li>• Operations Research Analysts</li> <li>• Personal Financial Advisors</li> </ul>
<b>Automated Manufacturing Engineering Technology</b>	<ul style="list-style-type: none"> <li>• Industrial Engineers</li> <li>• Industrial Production Managers</li> <li>• Manufacturing Engineers</li> </ul>
<b>Biochemistry</b>	<ul style="list-style-type: none"> <li>• Chemists</li> <li>• Medical and Clinical Laboratory Technologists</li> <li>• Natural Sciences Managers</li> </ul>
<b>Biology</b>	<ul style="list-style-type: none"> <li>• Medical and Clinical Laboratory Specialists</li> <li>• Natural Sciences Managers</li> </ul>

# UA Bachelor's Degree and Corresponding In-Demand Occupations (cont.)

UA Bachelor's Degree	Corresponding In-Demand Occupation(s)
<b>Biomedical Engineering</b>	<ul style="list-style-type: none"> <li>• Manufacturing Engineers</li> <li>• Robotics Engineers</li> </ul>
<b>Biomedical Science</b>	<ul style="list-style-type: none"> <li>• Medical and Clinical Laboratory Technologists</li> <li>• Natural Sciences Managers</li> </ul>
<b>Business Administration</b>	<ul style="list-style-type: none"> <li>• Administrative Services Managers</li> <li>• Business Operations Specialists (All Other)</li> <li>• Fundraisers</li> <li>• General and Operations Managers</li> <li>• Human Resource Specialists</li> <li>• Human Resources Assis., ex. Payroll &amp; Timek</li> <li>• Industrial Production Managers</li> <li>• Loan Officers</li> <li>• Management Analysts</li> <li>• Managers (All Other)</li> <li>• Medical and Health Services Managers</li> <li>• Personal Financial Advisors</li> <li>• Purchasing Agents ex. Whole., Retail, &amp; Farm</li> <li>• Purchasing Managers</li> <li>• Sales Managers</li> <li>• Sales Rep., Wholesale &amp; Mfg, Tech./Sci. Prod.</li> <li>• Search Marketing Strategists</li> <li>• Securities/Commodities/Fin. Serv. Sales Agents</li> <li>• Social and Community Service Managers</li> <li>• Training and Development Specialists</li> </ul>

# UA Bachelor's Degree and Corresponding In-Demand Occupations (cont.)

UA Bachelor's Degree	Corresponding In-Demand Occupation(s)
<p><b>Business Data Analytics</b></p>	<ul style="list-style-type: none"> <li>• Actuaries</li> <li>• Appraisers and Assessors of Real Estate</li> <li>• Business Intelligence Analysis</li> <li>• Business Operations Specialist (All Other)</li> <li>• Cost Estimators</li> <li>• Financial Analysts</li> <li>• Financial Examiners</li> <li>• Financial Qualitative Analysis</li> <li>• Financial Specialists (All Other)</li> <li>• Loan Officers</li> <li>• Logisticians</li> <li>• Management Analysts</li> <li>• Market Research Analysts and Marketing Specialists</li> <li>• Operations Research Analysts</li> <li>• Personal Financial Advisors</li> <li>• Securities/Commodities/Fin. Serv. Sales Agents</li> </ul>
<p><b>Chemical Engineering</b></p>	<ul style="list-style-type: none"> <li>• Chemical Engineers</li> <li>• Chemists</li> </ul>
<p><b>Chemistry</b></p>	<ul style="list-style-type: none"> <li>• Chemists</li> <li>• Medical and Clinical Laboratory Technologists</li> <li>• Natural Sciences Managers</li> </ul>
<p><b>Chemistry (Polymer Option)</b></p>	<ul style="list-style-type: none"> <li>• Chemists</li> <li>• Medical and Clinical Laboratory Technologists</li> <li>• Natural Sciences Managers</li> </ul>
<p><b>Child and Family Development</b></p>	<ul style="list-style-type: none"> <li>• Child, Family, and School Social Workers</li> </ul>
<p><b>Civil Engineering</b></p>	<ul style="list-style-type: none"> <li>• Civil Engineers</li> <li>• Construction Managers</li> <li>• Solar Energy Systems Engineers</li> </ul>

# UA Bachelor's Degree and Corresponding In-Demand Occupations (cont.)

UA Bachelor's Degree	Corresponding In-Demand Occupation(s)
<p><b>Communication</b></p>	<ul style="list-style-type: none"> <li>• Administrative Services Managers</li> <li>• Compensation, Benefits, and Job Analysis Specialists</li> <li>• Fundraisers</li> <li>• Human Resource Specialists</li> <li>• Market Research Analysts and Marketing Specialists</li> <li>• Marketing Managers</li> <li>• Public Relations Specialist</li> <li>• Sales Managers</li> <li>• Sales Rep., Wholesale &amp; Mfg, Tech./Sci. Prod.</li> <li>• Search Marketing Strategists</li> <li>• Social and Community Service Managers</li> <li>• Training and Development Specialists</li> </ul>
<p><b>Computer Engineering</b></p>	<ul style="list-style-type: none"> <li>• Computer Occupations (All Other)</li> <li>• Computer Systems Engineers/Architects</li> <li>• Robotics Engineers</li> <li>• Software Developers (Applications)</li> <li>• Software Developers (Systems Software)</li> <li>• Software Quality Assurance Engineers and Testers</li> <li>• Solar Energy Systems Engineers</li> </ul>
<p><b>Computer Information Systems (Digital Forensics)</b></p>	<ul style="list-style-type: none"> <li>• Business Intelligence Analysis</li> <li>• Information Security Analysts</li> <li>• Information Security Analysts</li> </ul>
<p><b>Computer Information Systems (Cybersecurity)</b></p>	<ul style="list-style-type: none"> <li>• Computer and Information Systems Managers</li> <li>• Business Intelligence Analysis</li> <li>• Information Systems Analysts</li> <li>• Information Technology Project Managers</li> </ul>
<p><b>Computer Information Systems (Networking)</b></p>	<ul style="list-style-type: none"> <li>• Computer and Information Systems Managers</li> <li>• Computer Network Architects</li> <li>• Computer Occupations (All Other)</li> <li>• Computer Systems Analysts</li> <li>• Database Administrators</li> <li>• Information Technology Project Managers</li> <li>• Network and Comp. Systems Architects and Admins</li> </ul>



# UA Bachelor's Degree and Corresponding In-Demand Occupations (cont.)

UA Bachelor's Degree	Corresponding In-Demand Occupation(s)
<p><b>Computer Information Systems (Programming)</b></p>	<ul style="list-style-type: none"> <li>• Computer and Information Systems Managers</li> <li>• Computer Occupations (All Other)</li> <li>• Computer Programmers</li> <li>• Computer Systems Analysts</li> <li>• Database Administrators</li> <li>• Information Technology Project Managers</li> <li>• Software Developers (Applications)</li> <li>• Software Developers (Systems Software)</li> </ul>
<p><b>Computer Science</b></p>	<ul style="list-style-type: none"> <li>• Business Intelligence Analysis</li> <li>• Computer and Information Systems Managers</li> <li>• Computer Network Architects</li> <li>• Computer Occupations (All Other)</li> <li>• Computer Programmers</li> <li>• Computer Systems Analysts</li> <li>• Computer Systems Engineers/Architects</li> <li>• Database Administrators</li> <li>• Information Security Analysts</li> <li>• Information Technology Project Managers</li> <li>• Operations Research Analysts</li> <li>• Software Developers (Applications)</li> <li>• Software Developers (Systems Software)</li> <li>• Software Quality Assurance Engineers and Testers</li> </ul>
<p><b>Construction Engineering Technology</b></p>	<ul style="list-style-type: none"> <li>• Construction Managers</li> <li>• Cost Estimators</li> </ul>
<p><b>Corrosion Engineering</b></p>	<ul style="list-style-type: none"> <li>• Chemical Engineers</li> </ul>
<p><b>Earth Science</b></p>	<ul style="list-style-type: none"> <li>• Energy Auditors</li> <li>• Natural Sciences Managers</li> </ul>

# UA Bachelor's Degree and Corresponding In-Demand Occupations (cont.)

UA Bachelor's Degree	Corresponding In-Demand Occupation(s)
<p><b>Economics</b></p>	<ul style="list-style-type: none"> <li>• Actuaries</li> <li>• Business Intelligence Analysis</li> <li>• Business Operations Specialists (All Other)</li> <li>• Cost Estimators</li> <li>• Financial Analysts</li> <li>• Financial Examiners</li> <li>• Financial Managers</li> <li>• Financial Quantitative Analysis</li> <li>• Financial Specialists (All Other)</li> <li>• Human Resource Specialists</li> <li>• Human Resources Assis., ex. Payroll &amp; Timekp</li> <li>• Loan Officers</li> <li>• Logisticians</li> <li>• Management Analysts</li> <li>• Market Research Analysts and Marketing Specialists</li> <li>• Operations Research Analysts</li> <li>• Personal Financial Advisors</li> <li>• Securities/Commodities/Fin. Serv. Sales Agents</li> </ul>
<p><b>Education</b></p>	<ul style="list-style-type: none"> <li>• Education Admin., Pre &amp; Child Care Center/Prog.</li> <li>• Human Resources Assis., ex. Payroll &amp; Timekp</li> <li>• Preschool Teachers (Except Special Education)</li> <li>• Social and Community Service Managers</li> <li>• Training and Development Specialists</li> </ul>
<p><b>Electrical Engineering</b></p>	<ul style="list-style-type: none"> <li>• Electrical Engineers</li> <li>• Electronics Engineers (Except Computer)</li> <li>• Robotics Engineers</li> <li>• Solar Energy Systems Engineers</li> </ul>
<p><b>Electronic Engineering Technology</b></p>	<ul style="list-style-type: none"> <li>• Electrical Engineers</li> <li>• Electronics Engineers (Except Computer)</li> <li>• Robotics Engineers</li> </ul>

# UA Bachelor's Degree and Corresponding In-Demand Occupations (cont.)

UA Bachelor's Degree	Corresponding In-Demand Occupation(s)
<b>Emergency Management and Homeland Security</b>	<ul style="list-style-type: none"> <li>• Information Security Analysts</li> </ul>
<b>English</b>	<ul style="list-style-type: none"> <li>• Fundraisers</li> <li>• Public Relations Specialists</li> </ul>
<b>Environmental Science</b>	<ul style="list-style-type: none"> <li>• Energy Auditors</li> <li>• Natural Sciences Managers</li> </ul>
<b>Exercise Science</b>	<ul style="list-style-type: none"> <li>• Medical and Health Services Managers</li> </ul>
<b>Finance</b>	<ul style="list-style-type: none"> <li>• Administrative Services Managers</li> <li>• Business Intelligence Analysis</li> <li>• Cost Estimators</li> <li>• Financial Analysts</li> <li>• Financial Examiners</li> <li>• Financial Managers</li> <li>• Financial Quantitative Analysis</li> <li>• Financial Specialists (All Other)</li> <li>• Loan Officers</li> <li>• Management Analyst</li> <li>• Operations Research Analysts</li> <li>• Personal Financial Advisors</li> <li>• Purchasing Agents, ex. Whole., Retail, &amp; Farm</li> <li>• Purchasing Managers</li> <li>• Sales Rep., Wholesale &amp; Mfg, Tech./Sci. Prod.</li> <li>• Securities/Commodities/Fin. Serv. Sales Agents</li> </ul>
<b>Finance (Financial Planning)</b>	<ul style="list-style-type: none"> <li>• Personal Financial Advisors</li> </ul>
<b>Finance (Risk Management and Insurance)</b>	<ul style="list-style-type: none"> <li>• Actuaries</li> </ul>
<b>Geology</b>	<ul style="list-style-type: none"> <li>• Natural Sciences Managers</li> </ul>
<b>Graphic Design</b>	<ul style="list-style-type: none"> <li>• Graphic Designers</li> </ul>

# UA Bachelor's Degree and Corresponding In-Demand Occupations (cont.)

UA Bachelor's Degree	Corresponding In-Demand Occupation(s)
<p><b>Human Resource Management</b></p>	<ul style="list-style-type: none"> <li>• Administrative Services Managers</li> <li>• Business Operations Specialists (All Other)</li> <li>• Human Resource Specialists</li> <li>• Human Resources Assis., ex. Payroll &amp; Timekp</li> <li>• Social and Community Service Managers</li> <li>• Training and Development Specialists</li> </ul>
<p><b>Information Systems Management</b></p>	<ul style="list-style-type: none"> <li>• Business Intelligence Analyst</li> <li>• Computer and Information Systems Managers</li> <li>• Computer Network Architects</li> <li>• Computer Network Support Specialists</li> <li>• Database Administrators</li> <li>• Information Security Analysts</li> <li>• Information Technology Project Managers</li> <li>• Logisticians</li> <li>• Managers (All Other)</li> <li>• Software Developers (Applications, Systems Software)</li> </ul>
<p><b>Integrated Marketing Communications</b></p>	<ul style="list-style-type: none"> <li>• Fundraisers</li> <li>• Market Research Analysts and Marketing Specialists</li> <li>• Marketing Managers</li> <li>• Public Relations Specialists</li> <li>• Sales Managers</li> <li>• Sales Rep., Wholesale &amp; Mfg, Tech./Sci. Prod.</li> <li>• Search Marketing Strategists</li> <li>• Social and Community Service Managers</li> </ul>
<p><b>Marketing Management</b></p>	<ul style="list-style-type: none"> <li>• Administrative Services Managers</li> <li>• Fundraisers</li> <li>• Managers (All Other)</li> <li>• Market Research Analysts and Marketing Specialists</li> <li>• Marketing Managers</li> <li>• Public Relations Specialists</li> <li>• Sales Managers</li> <li>• Sales Rep., Wholesale &amp; Mfg, Tech./Sci. Prod.</li> <li>• Search Marketing Strategists</li> <li>• Social and Community Service Managers</li> </ul>

# UA Bachelor's Degree and Corresponding In-Demand Occupations (cont.)

UA Bachelor's Degree	Corresponding In-Demand Occupation(s)
<b>Mechanical Engineering</b>	<ul style="list-style-type: none"> <li>• Industrial Engineers</li> <li>• Manufacturing Engineers</li> <li>• Mechanical Engineers</li> <li>• Robotics Engineers</li> <li>• Solar Energy Systems Engineers</li> </ul>
<b>Mechanical Engineering Technology</b>	<ul style="list-style-type: none"> <li>• Industrial Engineers</li> <li>• Manufacturing Engineers</li> <li>• Mechanical Engineers</li> <li>• Robotics Engineers</li> </ul>
<b>Nursing</b>	<ul style="list-style-type: none"> <li>• Medical and Health Services Managers</li> <li>• Nurse Practitioners</li> <li>• Registered Nurses</li> </ul>
<b>Organizational Supervision</b>	<ul style="list-style-type: none"> <li>• Administrative Services Managers</li> <li>• Business Operations Specialists (All Other)</li> <li>• Fundraisers</li> <li>• General and Operations Managers</li> <li>• Human Resource Specialists</li> <li>• Loan Officers</li> <li>• Management Analysts</li> <li>• Managers (All Other)</li> <li>• Sales Managers</li> <li>• Sales Rep., Wholesale &amp; Mfg, Tech./Sci. Prod.</li> <li>• Substance Abuse &amp; Behavioral Dis. Counselors</li> <li>• Training and Development Specialists</li> </ul>
<b>Political Science</b>	<ul style="list-style-type: none"> <li>• Social and Community Service Managers</li> </ul>
<b>Psychology</b>	<ul style="list-style-type: none"> <li>• Compensation</li> <li>• Benefits, and Job Analysis Specialists</li> <li>• Human Resource Specialists</li> <li>• Mental Health Counselors</li> <li>• Sales Rep., Wholesale &amp; Mfg, Tech./Sci. Prod.</li> <li>• Social and Community Service Managers</li> <li>• Substance Abuse &amp; Behavioral Dis. Counselors</li> </ul>
<b>Respiratory Therapy</b>	<ul style="list-style-type: none"> <li>• Respiratory Therapists</li> </ul>

# UA Bachelor's Degree and Corresponding In-Demand Occupations (cont.)

UA Bachelor's Degree	Corresponding In-Demand Occupation(s)
<p><b>Sales Management</b></p>	<ul style="list-style-type: none"> <li>• Administrative Services Managers</li> <li>• Managers (All Other)</li> <li>• Purchasing Agents, ex. Whole., Retail, &amp; Farm</li> <li>• Sales Engineers</li> <li>• Sales Managers</li> <li>• Sales Rep., Wholesale &amp; Mfg, Tech./Sci. Prod.</li> <li>• Securities/Commodities/Fin. Serv. Sales Agents</li> </ul>
<p><b>Social Work</b></p>	<ul style="list-style-type: none"> <li>• Child, Family, and School Social Workers</li> <li>• Education Admin., Pre &amp; Child Care Center/Prog.</li> <li>• Social and Community Service Managers</li> </ul>
<p><b>Sociology</b></p>	<ul style="list-style-type: none"> <li>• Compensation, Benefits, and Job Analysis Specialists</li> <li>• Human Resource Specialists</li> <li>• Social &amp; Community Service Managers</li> <li>• Substance Abuse &amp; Behavioral Disorder Counselors</li> <li>• Training and Development Specialists</li> </ul>
<p><b>Statistics</b></p>	<ul style="list-style-type: none"> <li>• Actuaries</li> <li>• Appraisers and Assessors of Real Estate</li> <li>• Business Intelligence Analysis</li> <li>• Compl. Off., ex. Agric, Con, Hlth/Safety, &amp; Trans.</li> <li>• Cost Estimators</li> <li>• Financial Analysts</li> <li>• Financial Quantitative Analysis</li> <li>• Loan Officers</li> <li>• Management Analysts</li> <li>• Operations Research Analysts</li> </ul>
<p><b>Supply Chain/Operations Management</b></p>	<ul style="list-style-type: none"> <li>• Administrative Services Managers</li> <li>• Business Operations Specialists (All Other)</li> <li>• General and Operations Managers</li> <li>• Industrial Production Managers</li> <li>• Logisticians</li> <li>• Managers (All Other)</li> <li>• Operations Research Analysts</li> <li>• Purchasing Agents, ex. Whole., Retail, &amp; Farm</li> <li>• Purchasing Managers</li> </ul>

# UA Master's Degree and Corresponding In-Demand Occupations

UA Master's Degree	Corresponding In-Demand Occupation
<b>Adult/Gerontological Nursing – Nurse Practitioner</b>	<ul style="list-style-type: none"> <li>• Nurse Practitioners</li> </ul>
<b>Child and Adolescent Health – Nurse Practitioner Primary Health Care</b>	<ul style="list-style-type: none"> <li>• Nurse Practitioners</li> </ul>
<b>Child and Adolescent Health – Nurse Practitioner Primary/Acute Care Track</b>	<ul style="list-style-type: none"> <li>• Nurse Practitioners</li> </ul>
<b>Child and Adolescent Health Acute – Nurse Practitioner Track</b>	<ul style="list-style-type: none"> <li>• Nurse Practitioners</li> </ul>
<b>Family Psychiatric/Mental Health – Nurse Practitioner Track</b>	<ul style="list-style-type: none"> <li>• Nurse Practitioners</li> </ul>
<b>Social Work</b>	<ul style="list-style-type: none"> <li>• Medical Social Workers</li> <li>• Public Health Social Workers</li> </ul>
<b>Social Work and Counseling</b>	<ul style="list-style-type: none"> <li>• Mental Health and Substance Abuse Social Workers</li> <li>• Mental Health Counselors</li> <li>• Rehabilitation Counselors</li> <li>• Substance Abuse &amp; Behavioral Dis. Counselors</li> </ul>
<b>Speech-Language Pathology</b>	<ul style="list-style-type: none"> <li>• Speech Language Pathologist</li> </ul>

# UA Associate's Degree and Corresponding In-Demand Occupations

UA Associate's Degree	Corresponding In-Demand Occupation
<b>Computer Information Systems</b>	<ul style="list-style-type: none"><li>• Computer Network Support Specialists</li><li>• Web Developers</li></ul>
<b>Electronic Engineering Technology</b>	<ul style="list-style-type: none"><li>• Electrical and Electronic Engineering Technicians</li><li>• Electro-Mechanical Technicians</li></ul>
<b>Advanced Manufacturing Engineering Technology</b>	<ul style="list-style-type: none"><li>• Industrial Engineering Technicians</li></ul>
<b>Mechanical Engineering Technology</b>	<ul style="list-style-type: none"><li>• Electro-Mechanical Technicians</li></ul>



# UA Doctorate or Professional Degree and Corresponding In-Demand Occupations

UA Associate's Degree	Corresponding In-Demand Occupation
<b>Counseling Psychology</b>	<ul style="list-style-type: none"><li>• Clinical Psychologists</li><li>• Counseling Psychologists</li><li>• School Psychologists</li></ul>
<b>Juris Doctor</b>	<ul style="list-style-type: none"><li>• Lawyer</li></ul>

## **Section C: Jobs → Majors**

# **In-Demand Occupations in Ohio Aligned with UA Majors and Degrees**

In-Demand Occupations and Corresponding UA Bachelor's Degrees

In-Demand Occupations and Corresponding UA Master's Degrees

In-Demand Occupations and Corresponding UA Associate's Degrees

In-Demand Occupations and Corresponding UA Doctorate or Professional Degrees  
In-Demand Occupations

# In-Demand Occupations and Corresponding UA Bachelor's Degree

In-Demand Occupation	Suggested UA Bachelor's Degree
<p><b>Accountants and Auditors</b> Licensure May Be Preferred</p>	<ul style="list-style-type: none"> <li>• Accounting</li> </ul>
<p><b>Actuaries</b> Licensure May Be Required</p>	<ul style="list-style-type: none"> <li>• Accounting</li> <li>• Applied Mathematics</li> <li>• Business Data Analytics</li> <li>• Economics</li> <li>• Finance (Risk Management and Insurance)</li> <li>• Statistics</li> </ul>
<p><b>Administrative Services Managers</b></p>	<ul style="list-style-type: none"> <li>• Allied Health Administration</li> <li>• Business Administration</li> <li>• Communication</li> <li>• Finance</li> <li>• Human Resource Management</li> <li>• Marketing Management</li> <li>• Organizational Supervision</li> <li>• Sales Management</li> <li>• Supply Chain/Operations Management</li> <li>• Other Majors Applicable</li> </ul>
<p><b>Aerospace Engineers</b> Licensure May Be Preferred</p>	<ul style="list-style-type: none"> <li>• Aerospace Engineering</li> </ul>
<p><b>Appraisers and Assessors of Real Estate</b> Licensure May Be Preferred</p>	<ul style="list-style-type: none"> <li>• Applied Mathematics</li> <li>• Business Data Analytics</li> <li>• Statistics</li> </ul>
<p><b>Business Intelligence Analysts</b></p>	<ul style="list-style-type: none"> <li>• Accounting</li> <li>• Applied Mathematics</li> <li>• Business Data Analytics</li> <li>• Computer Information Systems (Cybersecurity)</li> <li>• Computer Information Systems (Digital Forensics)</li> <li>• Computer Science - Systems Track</li> <li>• Computer Science - Management Track</li> <li>• Economics</li> <li>• Finance</li> <li>• Information Systems - Management Track</li> <li>• Statistics</li> </ul>

# In-Demand Occupations and Corresponding UA Bachelor's Degree (cont.)

In-Demand Occupation	Suggested UA Bachelor's Degree
<b>Business Operations Specialists, All Other</b>	<ul style="list-style-type: none"> <li>• Business Administration</li> <li>• Business Data Analytics</li> <li>• Economics (Labor Economics)</li> <li>• Human Resource Management</li> <li>• Organizational Supervision</li> <li>• Supply Chain/Operations Management</li> </ul>
<b>Chemical Engineers</b>	<ul style="list-style-type: none"> <li>• Chemical Engineering</li> <li>• Corrosion Engineering</li> </ul>
<b>Chemists</b>	<ul style="list-style-type: none"> <li>• Biochemistry</li> <li>• Chemistry</li> <li>• Chemistry - Polymer</li> <li>• Chemical Engineering</li> </ul>
<b>Child, Family, and School Social Workers</b> Licensure May Be Preferred	<ul style="list-style-type: none"> <li>• Social Work</li> </ul>
<b>Civil Engineers</b> Licensure May Be Preferred	<ul style="list-style-type: none"> <li>• Civil Engineering</li> </ul>
<b>Compensation, Benefits, and Job Analysis Specialists</b>	<ul style="list-style-type: none"> <li>• Communication</li> <li>• Psychology</li> <li>• Sociology</li> </ul>
<b>Compliance Officers, ex. Agric, Con, Hlth/Safety, &amp; Trans.</b>	<ul style="list-style-type: none"> <li>• Applied Mathematics</li> <li>• Emergency Management and Homeland Security</li> <li>• Statistics</li> </ul>
<b>Computer and Information Systems Managers</b>	<ul style="list-style-type: none"> <li>• Computer Science - Management Track</li> <li>• Computer Information Systems (Cybersecurity)</li> <li>• Computer Information Systems (Networking)</li> <li>• Computer Information Systems (Programming)</li> <li>• Computer Science - Systems Track</li> <li>• Information Systems Management</li> </ul>
<b>Computer Network Architects</b>	<ul style="list-style-type: none"> <li>• Computer Information Systems (Networking)</li> <li>• Computer Science - Management Track</li> <li>• Computer Science - Systems Track</li> <li>• Information Systems Management</li> </ul>

# In-Demand Occupations and Corresponding UA Bachelor's Degree (cont.)

In-Demand Occupation	Suggested UA Bachelor's Degree
<b>Computer Occupations, All Other</b>	<ul style="list-style-type: none"> <li>• Computer Engineering</li> <li>• Computer Information Systems (Networking)</li> <li>• Computer Information Systems (Programming)</li> <li>• Computer Science - Management Track</li> <li>• Computer Science - Systems Track</li> </ul>
<b>Computer Programmers</b>	<ul style="list-style-type: none"> <li>• Computer Information Systems (Programming)</li> <li>• Computer Science - Management Track</li> <li>• Computer Science - Systems Track</li> </ul>
<b>Computer Systems Analysts</b>	<ul style="list-style-type: none"> <li>• Computer Information Systems (Networking)</li> <li>• Computer Information Systems (Programming)</li> <li>• Computer Science - Management Track</li> <li>• Computer Science - Systems Track</li> </ul>
<b>Computer Systems Engineers/Architects</b>	<ul style="list-style-type: none"> <li>• Computer Engineering</li> <li>• Computer Science - Systems Track</li> </ul>
<b>Construction Managers</b>	<ul style="list-style-type: none"> <li>• Civil Engineering</li> <li>• Construction Engineering Technology</li> </ul>
<b>Cost Estimators</b>	<ul style="list-style-type: none"> <li>• Accounting</li> <li>• Applied Mathematics</li> <li>• Business Data Analytics</li> <li>• Construction Engineering Technology</li> <li>• Economics</li> <li>• Finance</li> <li>• Statistics</li> </ul>
<b>Database Administrators</b>	<ul style="list-style-type: none"> <li>• Computer Science - Management Track</li> <li>• Computer Science - Systems Track</li> <li>• Computer Information Systems (Networking)</li> <li>• Computer Information Systems (Programming)</li> <li>• Information Systems Management</li> </ul>
<b>Education Admin., Pre &amp; Child Care Center/Prog.</b>	<ul style="list-style-type: none"> <li>• Child &amp; Family Development</li> <li>• Education</li> <li>• Social Work</li> <li>• Other Majors Applicable</li> </ul>

# In-Demand Occupations and Corresponding UA Bachelor's Degree (cont.)

In-Demand Occupation	Suggested UA Bachelor's Degree
<b>Electrical Engineers</b> Licensure May Be Preferred	<ul style="list-style-type: none"> <li>• Electrical Engineering</li> <li>• Electronics Engineering Technology</li> </ul>
<b>Electronics Engineers, Except Computer</b> Licensure May Be Preferred	<ul style="list-style-type: none"> <li>• Electrical Engineering</li> <li>• Electronics Engineering Technology</li> </ul>
<b>Energy Auditors</b>	<ul style="list-style-type: none"> <li>• Earth Science</li> <li>• Environmental Science</li> </ul>
<b>Engineering Managers</b> Licensure May Be Preferred	<ul style="list-style-type: none"> <li>• Engineering (All)</li> <li>• Engineering Technology (All)</li> </ul>
<b>Engineers, All Other</b> Licensure May Be Preferred	<ul style="list-style-type: none"> <li>• Engineering (All)</li> <li>• Engineering Technology (All)</li> </ul>
<b>Financial Analysts</b>	<ul style="list-style-type: none"> <li>• Accounting</li> <li>• Applied Mathematics</li> <li>• Business Data Analytics</li> <li>• Economics</li> <li>• Finance</li> <li>• Statistics</li> </ul>
<b>Financial Examiners</b>	<ul style="list-style-type: none"> <li>• Accounting</li> <li>• Business Data Analytics</li> <li>• Economics</li> <li>• Finance</li> </ul>
<b>Financial Managers</b>	<ul style="list-style-type: none"> <li>• Accounting</li> <li>• Economics</li> <li>• Finance</li> </ul>
<b>Financial Quantitative Analysis</b>	<ul style="list-style-type: none"> <li>• Applied Mathematics</li> <li>• Business Data Analytics</li> <li>• Economics</li> <li>• Finance</li> <li>• Statistics</li> </ul>
<b>Financial Specialists, All Other</b>	<ul style="list-style-type: none"> <li>• Accounting</li> <li>• Applied Mathematics</li> <li>• Business Data Analytics</li> <li>• Economics</li> <li>• Finance</li> </ul>

# In-Demand Occupations and Corresponding UA Bachelor's Degree (cont.)

In-Demand Occupation	Suggested UA Bachelor's Degree
<b>Fundraisers</b>	<ul style="list-style-type: none"> <li>• Business Administration</li> <li>• Communication</li> <li>• English</li> <li>• Integrated Marketing Communications</li> <li>• Marketing Management</li> <li>• Organizational Supervision</li> <li>• Other Majors Applicable</li> </ul>
<b>General and Operations Managers</b>	<ul style="list-style-type: none"> <li>• Allied Health Administration</li> <li>• Business Administration</li> <li>• Organizational Supervision</li> <li>• Supply Chain/Operations Management</li> <li>• Other Majors Applicable</li> </ul>
<b>Graphic Designers</b>	<ul style="list-style-type: none"> <li>• Graphic Design</li> </ul>
<b>Health &amp; Safety Engineers, ex. Mining Safety</b>	<ul style="list-style-type: none"> <li>• Emergency Management and Homeland Security</li> </ul>
<b>Human Resource Specialists</b>	<ul style="list-style-type: none"> <li>• Business Administration</li> <li>• Communication</li> <li>• Economics (Labor)</li> <li>• Human Resource Management</li> <li>• Organizational Supervision</li> <li>• Psychology</li> <li>• Sociology</li> </ul>
<b>Industrial Engineers</b>	<ul style="list-style-type: none"> <li>• Automated Engineering Technology</li> <li>• Mechanical Engineering</li> <li>• Mechanical Engineering Technology</li> </ul>
<b>Industrial Production Managers</b>	<ul style="list-style-type: none"> <li>• Automated Engineering Technology</li> <li>• Business Administration</li> <li>• Mechanical Engineering Technology</li> <li>• Supply Chain/Operations Management</li> </ul>
<b>Information Security Analysts</b>	<ul style="list-style-type: none"> <li>• Computer Information Systems (Cybersecurity)</li> <li>• Computer Information Systems (Digital Forensics)</li> <li>• Computer Science - Management Track</li> <li>• Computer Science - Systems Track</li> <li>• Emergency Management and Homeland Security</li> <li>• Information Systems Management</li> </ul>

# In-Demand Occupations and Corresponding UA Bachelor's Degree (cont.)

In-Demand Occupation	Suggested UA Bachelor's Degree
<p><b>Information Technology Project Managers</b></p>	<ul style="list-style-type: none"> <li>• Computer Information Systems (Cybersecurity)</li> <li>• Computer Information Systems (Networking)</li> <li>• Computer Information Systems (Programming)</li> <li>• Computer Science - Management Track</li> <li>• Information Systems Management</li> </ul>
<p><b>Loan Officers</b> Licensure May Be Required</p>	<ul style="list-style-type: none"> <li>• Applied Mathematics</li> <li>• Business Administration</li> <li>• Business Data Analytics</li> <li>• Economics</li> <li>• Finance</li> <li>• Organizational Supervision</li> <li>• Statistics</li> </ul>
<p><b>Logisticians</b></p>	<ul style="list-style-type: none"> <li>• Business Data Analytics</li> <li>• Economics</li> <li>• Information Systems Management</li> <li>• Supply Chain/Operations Management</li> </ul>
<p><b>Management Analysts</b></p>	<ul style="list-style-type: none"> <li>• Applied Mathematics</li> <li>• Business Administration</li> <li>• Business Data Analytics</li> <li>• Economics</li> <li>• Finance</li> <li>• Organizational Supervision</li> <li>• Statistics</li> </ul>
<p><b>Managers, All Other</b></p>	<ul style="list-style-type: none"> <li>• Allied Health Administration</li> <li>• Business Administration</li> <li>• Information Systems Management</li> <li>• Marketing Management</li> <li>• Organizational Supervision</li> <li>• Sales Management</li> <li>• Supply Chain/Operations Management</li> <li>• Other Majors Applicable</li> </ul>



# In-Demand Occupations and Corresponding UA Bachelor's Degree (cont.)

In-Demand Occupation	Suggested UA Bachelor's Degree
<p><b>Market Research Analysts and Marketing Specialists</b></p>	<ul style="list-style-type: none"> <li>• Business Data Analytics</li> <li>• Communication</li> <li>• Economics</li> <li>• Integrated Marketing Communications</li> <li>• Marketing Management</li> </ul>
<p><b>Marketing Managers</b></p>	<ul style="list-style-type: none"> <li>• Communication</li> <li>• Integrated Marketing Communications</li> <li>• Marketing Management</li> </ul>
<p><b>Mechanical Engineers</b> Licensure May Be Preferred</p>	<ul style="list-style-type: none"> <li>• Mechanical Engineering</li> <li>• Mechanical Engineering Technology</li> </ul>
<p><b>Medical and Clinical Laboratory Technologists</b></p>	<ul style="list-style-type: none"> <li>• Biochemistry</li> <li>• Biology</li> <li>• Biomedical Science</li> <li>• Chemistry</li> <li>• Chemistry - Polymer</li> </ul>
<p><b>Medical and Health Services Managers</b> Licensure May Be Preferred</p>	<ul style="list-style-type: none"> <li>• Allied Health Administration</li> <li>• Business Administration</li> <li>• Exercise Science</li> <li>• Nursing</li> </ul>
<p><b>Natural Science Managers</b></p>	<ul style="list-style-type: none"> <li>• Biochemistry</li> <li>• Biology</li> <li>• Biomedical Science</li> <li>• Chemistry</li> <li>• Chemistry - Polymer</li> <li>• Earth Science</li> <li>• Environmental Science</li> <li>• Geology</li> <li>• Physics</li> </ul>
<p><b>Network and Comp. Systems Architects and Admins</b></p>	<ul style="list-style-type: none"> <li>• Computer Information Systems (Networking)</li> </ul>
<p><b>Occupational Therapists</b> Licensure May Be Required</p>	<ul style="list-style-type: none"> <li>• Exercise Science (Bachelor Level)</li> </ul>

# In-Demand Occupations and Corresponding UA Bachelor's Degree (cont.)

In-Demand Occupation	Suggested UA Bachelor's Degree
<p><b>Operations Research Analysts</b></p>	<ul style="list-style-type: none"> <li>• Applied Mathematics</li> <li>• Automated Manufacturing Engineering Technology</li> <li>• Business Data Analytics</li> <li>• Computer Science - Management Track</li> <li>• Computer Science - Systems Track</li> <li>• Economics</li> <li>• Finance</li> <li>• Statistics</li> <li>• Supply Chain/Operations Management</li> </ul>
<p><b>Personal Financial Advisors</b> Licensure May Be Preferred</p>	<ul style="list-style-type: none"> <li>• Accounting</li> <li>• Applied Mathematics</li> <li>• Business Administration</li> <li>• Business Data Analytics</li> <li>• Economics</li> <li>• Finance</li> <li>• Finance - Financial Planning</li> </ul>
<p><b>Public Relations Specialists</b></p>	<ul style="list-style-type: none"> <li>• Communication</li> <li>• English</li> <li>• Integrated Marketing Communications</li> <li>• Marketing Management</li> <li>• Sports Management</li> </ul>
<p><b>Purchasing Agents, except Wholesale, Retail &amp; Farm</b></p>	<ul style="list-style-type: none"> <li>• Business Administration</li> <li>• Finance</li> <li>• Sales Management</li> <li>• Supply Chain/Operations Management</li> </ul>
<p><b>Purchasing Managers</b></p>	<ul style="list-style-type: none"> <li>• Business Administration</li> <li>• Finance</li> <li>• Supply Chain/Operations Management</li> </ul>
<p><b>Registered Nurses</b> Licensure May Be Required</p>	<ul style="list-style-type: none"> <li>• Nursing</li> </ul>

# In-Demand Occupations and Corresponding UA Bachelor's Degree (cont.)

In-Demand Occupation	Suggested UA Bachelor's Degree
<b>Robotics Engineers</b>	<ul style="list-style-type: none"> <li>• Aerospace Engineering</li> <li>• Biomedical Engineering</li> <li>• Computer Engineering</li> <li>• Electrical Engineering</li> <li>• Electronic Engineering Technology</li> <li>• Mechanical Engineering</li> <li>• Mechanical Engineering Technology</li> </ul>
<b>Sales Engineers</b>	<ul style="list-style-type: none"> <li>• Engineering (All)</li> <li>• Engineering Technology (All)</li> <li>• Sales Management</li> </ul>
<b>Sales Managers</b>	<ul style="list-style-type: none"> <li>• Business Administration</li> <li>• Communication</li> <li>• Integrated Marketing Communications</li> <li>• Marketing Management</li> <li>• Organizational Supervision</li> <li>• Sales Management</li> <li>• Other Majors Applicable</li> </ul>
<b>Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products</b>	<ul style="list-style-type: none"> <li>• Business Administration</li> <li>• Communication</li> <li>• Finance</li> <li>• Integrated Marketing Communications</li> <li>• Marketing Management</li> <li>• Organizational Supervision</li> <li>• Psychology</li> <li>• Sales Management</li> <li>• Other Majors Applicable</li> </ul>
<b>Search Marketing Strategist</b>	<ul style="list-style-type: none"> <li>• Business Administration</li> <li>• Communication</li> <li>• Integrated Marketing Communications</li> <li>• Marketing Management</li> </ul>

# In-Demand Occupations and Corresponding UA Bachelor's Degree (cont.)

In-Demand Occupation	Suggested UA Bachelor's Degree
<p><b>Securities, Commodities, and Financial Service Sales Agent</b></p>	<ul style="list-style-type: none"> <li>• Accounting</li> <li>• Business Administration</li> <li>• Business Data Analytics</li> <li>• Economics</li> <li>• Finance</li> <li>• Sales Management</li> </ul>
<p><b>Social &amp; Community Service Managers</b> Licensure May Be Preferred</p>	<ul style="list-style-type: none"> <li>• Allied Health Administration</li> <li>• Anthropology</li> <li>• Business Administration</li> <li>• Child &amp; Family Development</li> <li>• Communication</li> <li>• Criminology and Criminal Justice</li> <li>• Education</li> <li>• Human Resource Management</li> <li>• Integrated Marketing Communications</li> <li>• Marketing Management</li> <li>• Organizational Supervision</li> <li>• Political Science</li> <li>• Psychology</li> <li>• Sociology</li> <li>• Social Work</li> <li>• Other Majors Applicable</li> </ul>
<p><b>Software Developers, Applications</b></p>	<ul style="list-style-type: none"> <li>• Computer Engineering</li> <li>• Computer Information Systems (Programming)</li> <li>• Computer Science - Management Track</li> <li>• Computer Science - Systems Track</li> </ul>
<p><b>Software Developers, Systems Software</b></p>	<ul style="list-style-type: none"> <li>• Computer Information Systems (Programming)</li> <li>• Computer Engineering</li> <li>• Computer Science - Management Track</li> <li>• Computer Science - Systems Track</li> <li>• Information Systems Management</li> </ul>
<p><b>Software Quality Assurance Engineers and Testers</b> Licensure May Be Preferred</p>	<ul style="list-style-type: none"> <li>• Computer Engineering</li> <li>• Computer Science - Management Track</li> <li>• Computer Science - Systems Track</li> </ul>

# In-Demand Occupations and Corresponding UA Bachelor's Degree (cont.)

In-Demand Occupation	Suggested UA Bachelor's Degree
<p><b>Solar Energy Systems Engineers</b> Licensure May Be Preferred</p>	<ul style="list-style-type: none"> <li>• Civil Engineering</li> <li>• Computer Engineering</li> <li>• Electrical Engineering</li> <li>• Mechanical Engineering</li> </ul>
<p><b>Substance Abuse &amp; Behavioral Disorder Counselors</b> Licensure May Be Preferred</p>	<ul style="list-style-type: none"> <li>• Child &amp; Family Development</li> <li>• Criminology and Criminal Justices</li> <li>• Organizational Supervision</li> <li>• Psychology</li> <li>• Sociology</li> <li>• Social Work</li> <li>• Counseling (Master's Level)</li> <li>• Other Majors Applicable</li> </ul>
<p><b>Training and Development Specialists</b></p>	<ul style="list-style-type: none"> <li>• Business Administration</li> <li>• Communication</li> <li>• Education</li> <li>• Human Resource Management</li> <li>• Organizational Supervision</li> <li>• Psychology</li> <li>• Sociology</li> <li>• Other Majors Acceptable</li> </ul>

## In-Demand Occupations Requiring a Bachelor's Degree Not Offered at UA

- |  |
|--|
| <ul style="list-style-type: none"> <li>• Clergy</li> </ul> |
|--|

# In-Demand Occupations and Corresponding UA Master's Degree

In-Demand Occupation	Suggested UA Master's Degree
<b>Medical and Public Health Social Workers</b> Licensure May Be Required	<ul style="list-style-type: none"> <li>• Social Work</li> </ul>
<b>Mental Health and Substance Abuse Social Workers</b> Licensure May Be Required	<ul style="list-style-type: none"> <li>• Counseling</li> <li>• Social Work</li> </ul>
<b>Mental Health Counselors</b> Licensure May Be Required	<ul style="list-style-type: none"> <li>• Counseling</li> <li>• Psychology</li> <li>• Social Work</li> </ul>
<b>Nurse Practitioners</b> Licensure May Be Required	<ul style="list-style-type: none"> <li>• Adult/Gerontological Nursing – Nurse Practitioner</li> <li>• Child and Adolescent Health – Nurse Practitioner Primary Health Care</li> <li>• Child and Adolescent Health – Nurse Practitioner Primary/Acute Care Track</li> <li>• Child and Adolescent Health Acute – Nurse Practitioner Track</li> <li>• Family Psychiatric/Mental Health – Nurse Practitioner Track</li> </ul>
<b>Occupational Therapists</b> Licensure May Be Required	<ul style="list-style-type: none"> <li>• Exercise Science (Bachelor Level)</li> </ul>
<b>Rehabilitation Counselors</b> Licensure May Be Required	<ul style="list-style-type: none"> <li>• Counseling</li> <li>• Exercise Science (Bachelor Level)</li> <li>• Psychology</li> <li>• Social Work</li> </ul>
<b>Speech-Language Pathologists</b> Licensure May Be Required	<ul style="list-style-type: none"> <li>• Speech-Language Pathology</li> </ul>

## In-Demand Occupations Requiring a Master's Degree Not Offered at UA

UA offers various Bachelor's degree programs that prepare students to enter the following Master's degree programs available at other institutions. UA Career Services is available to help students prepare for these graduate programs and enter these fields.

- Physician Assistants

# In-Demand Occupations and Corresponding UA Associate's Degree

In-Demand Occupation	Suggested UA Associate's Degree
<b>Computer Network Support Specialists</b>	<ul style="list-style-type: none"> <li>• Computer Information Systems</li> <li>• Information Systems Management</li> </ul>
<b>Electrical and Electronic Engineering Technicians</b> Licensure May Be Preferred	<ul style="list-style-type: none"> <li>• Electronic Engineering Technology</li> </ul>
<b>Electro-Mechanical Technicians</b> Licensure May Be Preferred	<ul style="list-style-type: none"> <li>• Electronic Engineering Technology</li> <li>• Mechanical Engineering Technology</li> </ul>
<b>Human Resources Assis., ex. Payroll &amp; Timekp</b>	<ul style="list-style-type: none"> <li>• Business Administration</li> <li>• Economics (Labor Economics)</li> <li>• Education</li> <li>• Human Resource Management</li> </ul>
<b>Industrial Engineering Technicians</b> Licensure May Be Preferred	<ul style="list-style-type: none"> <li>• Advanced Manufacturing Engineering Technology</li> </ul>
<b>Mechanical Engineering Technicians</b> Licensure May Be Preferred	<ul style="list-style-type: none"> <li>• Mechanical Engineering Technology</li> </ul>
<b>Preschool Teachers, Except Special Education</b> Licensure May Be Required	<ul style="list-style-type: none"> <li>• Education</li> </ul>
<b>Respiratory Therapists</b> Licensure May Be Required	<ul style="list-style-type: none"> <li>• Respiratory Therapy (Bachelor Level)</li> </ul>
<b>Web Developers</b>	<ul style="list-style-type: none"> <li>• Computer Information Systems</li> </ul>

## In-Demand Occupations Requiring a Associate's Degree Not Offered at UA

- Dental Hygienists
- Diagnostic Medical Sonographers
- Environ. Science & Protection Tech., inc. Health
- Medical and Clinical Laboratory Technicians
- Occupational Therapist Assistants
- Paralegals and Legal Assistants
- Physical Therapist Assistants
- Radiologic Technologists

# In-Demand Occupations and Corresponding UA Doctoral or Professional Degrees

In-Demand Occupation	Suggested UA Doctoral or Professional Degree
<b>Clinical, Counseling, and School Psychologists</b> Licensure May Be Required	<ul style="list-style-type: none"><li>• Counseling</li><li>• Counseling Psychology</li></ul>
<b>Lawyers</b>	<ul style="list-style-type: none"><li>• Juris Doctor</li></ul>
<b>Physical Therapists</b> Licensure May Be Required	<ul style="list-style-type: none"><li>• Exercise Science (Bachelor Level)</li></ul>

## In-Demand Occupations Requiring a Doctoral or Professional Degree Not Offered at UA

- Dentists, General
- Medical Scientists, Except Epidemiologists
- Pharmacists
- Physicians and Surgeons, All Other



## **Section D: UA Majors**

# **The University of Akron Majors and Degrees**

UA Bachelor's Degrees

UA Master's Degrees

UA Associate's Degrees

UA Minors

UA Certificates

# THE UNIVERSITY OF AKRON MAJORS

## BACHELOR'S DEGREES

### Buchtel College of Arts and Sciences

Anthropology  
Applied Mathematics  
Art

- Art Education
- Ceramics
- Graphic Design
- Jewelry and Metalsmithing
- Painting and Drawing
- Photography
- Printmaking
- Sculpture
- Studio Art

Biochemistry

Biology (and Pre-Professional Health)

Biomedical Science

Chemistry

- Polymer Option

Child and Family Development

Communication

- Media Studies
- Public Relations
- Strategic and Organizational

Computer Science

- Management Track
- System Track

Criminal Intelligence Analysis

Criminology and Criminal Justice

Dance

Earth Science

English

Environmental Science

Geology

History

Humanities

Multidisciplinary Studies

Music

Philosophy

Political Science

Psychology

Sociology

Spanish

Statistics

- Actuarial Science
- Data Science

Theatre Arts

### College of Applied Science and Technology

Automated Manufacturing Engineering  
Technology

Computer Information Systems (Cybersecurity)

- Cybersecurity
- Digital Forensics
- Programming option
- Networking option

Construction Engineering Technology

Electronic Engineering Technology

Emergency Management and Homeland Security

Mechanical Engineering Technology

Organizational Supervision

Surveying and Mapping Technology

### College of Business Administration

Accounting

Business Administration

Business Data Analytics

Economics

Finance

- Financial Management
- Financial Planning
- Risk Management and Insurance

Human Resource Management

Information Systems

Integrated Marketing Communications

International Business

Marketing Management

Sales Management

Supply Chain/Operations Management

### College of Education

Teacher Licensure Programs:

- Early Childhood Education
  - Early Childhood Inclusive Teacher

Preparation Program

- Middle Childhood Education
  - Language Arts/Mathematics
  - Language Arts/Science
  - Language Arts/Social Studies
  - Mathematics/Social Studies
  - Science/Social Studies
  - Science/Mathematics
- Middle Level Education, Single Licensure
  - Language Arts
  - Math
  - Science
  - Social Studies
- Special Education
  - Early Childhood Intervention Specialist
  - Mild/Moderate Intervention Specialist
  - Moderate/Intensive Intervention Specialist
- Secondary Education (Adolescent to Young Adult)
  - Integrated Mathematics
  - Integrated Language Arts
  - Integrated Social Studies
  - Chemistry
  - Earth Science
  - Life Science (Biology)
  - Chemistry-Physics
  - Earth Science-Chemistry
  - Earth Science-Physics
  - Biology-Chemistry
  - Biology-Earth Science
  - Biology-Physics
  - Physics
- PK-12 Multi-Age Licensure
  - Art Education
  - Music
  - Dance/Theatre
  - Physical Education/Health Education

Undecided Education

### College of Engineering

Aerospace Systems Engineering

Biomedical Engineering

- Biomaterials and Tissue Engineering Track
- Biomechanics Track
- Instrumentation, Signals and Imaging Track

Chemical Engineering

Civil Engineering

Computer Engineering

Corrosion Engineering

Electrical Engineering

Mechanical Engineering

Polymer Engineering

### College of Health Professions

Allied Healthcare Administration

Nursing

- Basic BSN Program
- LPN to BSN Program
- RN to BSN Program
- Second Degree BSN Program (Accelerated)

Nutrition and Dietetics

- Dietetics- The Coordinated Program
- Food and Environmental Nutrition

Respiratory Therapy

Social Work

Speech-Language Pathology and

Audiology

Sport Science and Wellness

Education

- Sport Studies
  - Coaching Education
  - Sports Management
- Exercise Science
  - Fitness Management
  - Physiological Sciences
  - Pre-Physical Therapy
  - Strength & Conditioning

# THE UNIVERSITY OF AKRON MAJORS

## MASTER'S DEGREES

### Buchtel College of Arts and Sciences

Applied Math  
Applied Politics  
Arts Administration  
Biology  
Chemistry  
Communication  
Computer Science  
English

- Composition
- Creative Writing
- Literature

Geoscience

- Geology
- Earth Science
- Environmental Geology

Music

- Accompanying
- Composition
- Education
- Performance Technology
- Technology
- Theory

Political Science  
Psychology  
Public Administration  
Statistics

### College of Polymer Science & Polymer Engineering

Polymer Engineering  
Polymer Science

### College of Education

Curriculum & Instruction:  
(Adolescence to Young Adult)

- Chemistry and Physics Licensure
- Chemistry Licensure
- Earth Science and Chemistry Licensure
- Earth Science and Physics Licensure
- Earth Science Licensure
- Integrated Language Arts Licensure
- Integrated Mathematics Licensure
- Integrated Social Studies Licensure
- Life (Biology) Science and Chemistry Licensure
- Life (Biology) Science and Earth Science Licensure
- Life Science and Physics Licensure
- Life Science Licensure
- Physics Licensure

PK-12 Multi-Age

- Drama

Educational Administration

- Principalship

Elementary Education-Literacy Option

### College of Engineering

Chemical Engineering  
Civil Engineering  
Electrical Engineering  
Mechanical Engineering

### College of Business Administration

Accounting  
Business Administration

- Finance
- Global Technological Innovation
- Interdisciplinary
- Risk Management and Insurance
- Strategic Marketing
- Supply Chain Management

Management

- Supply Chain Management
- Informational Systems Management

Taxation (MTax)

### College of Health Professions

Clinical Mental Health Counseling  
Clinical Nurse Specialists

- Adult Gerontologist Health
- Child and Adolescent Health

Marriage & Family Counseling/Therapy  
Nursing Anesthesia  
Nursing Practitioner

- Adult Gerontologist Health
- Child and Adolescent Health
- Child and Adolescent Acute Health
- Child and Adolescent Primary Care
- Family Psychiatric/Mental Health

Nursing Service Administration  
Physical Education

- Exercise Physiology/Adult Fitness
- Sport Science/Coaching

School Counseling  
Social Work  
Speech-Language Pathology

## ASSOCIATE'S DEGREES

### Buchtel College of Arts and Sciences

Criminal Justice Studies

- Corrections Option
- Law Enforcement Option
- Public Safety and Security Administration
- Securities Administration

### College of Applied Science and Technology

Advanced Manufacturing Engineering Technology  
Associate of Arts  
Associate of Science  
Associate of Technical Studies  
Computer Information Systems

- CIS CISCO Networking Track
- CIS Programming Option

Corrosion Engineering Technology  
Emergency Medical Services

- EMT/Paramedic
- Fire/Medic

Electronic Engineering Technology  
Fire Protection Technology  
Land Surveying

### Engineering Technology Associate of Applied Science

Advanced Manufacturing Engineering Technology  
Construction Engineering Technology  
Construction Field Operations  
Corrosion Engineering Technology  
Electrical and Electronic Engineering Technology  
Land Surveying  
Mechanical Engineering Technology

# THE UNIVERSITY OF AKRON MINORS

## **Buchtel College of Arts and Sciences**

African American Literature and Language

Applied Mathematics

Arabic

Art

- Ceramics
- Illustration
- Jewelry and Metalsmithing
- Painting and Drawing
- Photography
- Printmaking
- Sculpture

Bioethics

Biology

Business and Organizational Communication

- Organizational Communications
- Public Relations

Chemistry

Child Development

Classical Studies

Comparative Politics

Computer Science

Converged Media

Creative Writing

Dance

Emerging Technologies

English

Environmental Ethics

Ethics

Family Development

Forensic Psychology

French

General Philosophy

Geology

History

Interdisciplinary Anthropology

International Politics

Interpersonal and Public Communications

Interpersonal/Group Communication

Mass Media

- Communication
- News
- Media Production

Mathematics

Music

- Arts
- Jazz

Philosophy of Religions

Philosophy of Science

Philosophy of Science and Religion

Photography for Non-Art Majors

Political Science

- American Politics
- Criminal Justice

Politics of Homeland Security

Popular Literature & Film

Pre-Law

Pre-Law Philosophy

Professional Photography

Professional Writing

Psychology

Sociology

Spanish

Statistics

Theatre Arts

Women's Studies

## **College of Applied Science and Technology**

Computer Forensics

Computer Security

Emergency Management and Homeland  
Security

Fire Protection Technology

Programming Specialist

## **College of Business Administration**

Business Administration for Non-Business  
Majors

Business Essentials for Engineering Majors

Consumer Marketing

Database Marketing

Economics

Entrepreneurship

Finance for Business Majors

Financial Planning

Human Resource Management

Information Systems

International Business

Pre-MBA for Non-Business Majors

Professional Selling

Risk Management and Insurance

Supply Chain/Operations Management

## **College of Polymer Science and Polymer Engineering**

Polymer Science and Polymer Engineering

# THE UNIVERSITY OF AKRON CERTIFICATES

## **Buchtel College of Arts and Sciences Undergraduate Certificates**

Advances Spanish for the Health Professions  
Applied Politics  
Artificial Intelligence  
Case Management for Children and Families  
Computer Science  
Conflict Transformation and Social  
Entrepreneurship  
Early Childhood Programs  
Environmental Ethics  
Environmental Studies  
Field Archaeology  
Gerontology  
History

- Asian Studies
- Middle Eastern Studies

Home Based Intervention  
International Development  
Latin American Studies  
Linguistic Studies  
Pan-African Studies  
Parent and Family Education  
Police Ethics  
Professional Communication  
Professional Social Media  
Research Methods for the Social Sciences  
Teaching English as a Second Language  
Women's Studies

## **Buchtel College of Arts and Sciences Graduate Certificates**

Applied Politics  
Case Management for Children and Families  
Composition  
Divorce Mediation

Environmental Studies  
Gerontology  
Global Conflict  
History

- Asian Studies
- Middle Eastern Studies

Home Based Intervention  
Instructional Communication of Educators  
Literature  
Parent and Family Education  
Professional Writing  
Public Affairs

- Local and Regional Development  
Administration
- Non-Profit Management
- Policy Analysis
- Program Evaluation
- Public Management
- Urban Affairs

Teaching English as a Second Language  
Women's Studies

## **College of Engineering**

Environmental Engineering  
Geotechnical Engineering  
Nuclear Engineering  
Structural Engineering  
Transportation Engineering

## **College of Applied Science and Technology**

Applied Professional Writing  
Computer Forensics  
Computer Security  
Construction Field Operations  
Construction Estimation  
Construction Management

Construction Materials Testing  
Construction Residential Building  
Construction Residential Inspection  
Corrosion Technology  
Cyber Disaster Management  
Emergency Management  
Emergency Management and Homeland Security  
Fire Protection Technology  
Geographic and Land Information Systems  
Heavy Construction  
Supervision and Management  
Surveying for Civil Engineers  
Technical Mathematics

## **College of Health Professions**

Adult/Gerontological Nurse Practitioner  
Child and Adolescent Health Nurse Acute Care  
Child and Adolescent Health Nurse Practitioner  
Family Nurse Practitioner for Certified Adult/  
Gerontological NPs  
Family Psychiatric/Mental Health Nurse Practitioner  
Nurse Anesthesia  
Speech-Language Pathology and Audiology

## **College of Business Administration**

Cisco Networking Technology  
Entrepreneurship  
Financial Planning  
Healthcare Selling (Marketing Dept.)  
International Business  
Programming  
Professional Selling  
Professional Selling for Engineering Majors  
Risk Management and Insurance

# THE UNIVERSITY OF AKRON DOCTORAL PROGRAMS

## Buchtel College of Arts and Sciences

Chemistry  
Counseling Psychology  
Industrial/Organizational (IO)  
Psychology  
Integrated Bioscience

