

February
2018

CONNECTING UA MAJORS TO IN-DEMAND JOBS IN OHIO



The University of Akron
Career Services

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Ohio
MEANS
Jobs.

Connecting UA Majors to In-Demand Jobs in Ohio

February 2018

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*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.



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Section A:
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 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*
Registered Nurses	\$50,820	\$61,280	None	\$	4,833
General and Operations Managers	\$49,430	\$89,950	None	5 years or more	1,904
Accountants and Auditors	\$44,730	\$63,350	None	\$	1,438
Computer Systems Analysts	\$57,240	\$82,510	None	\$	978
Software Developers, Applications	\$57,000	\$84,920	None	\$	836
Managers, All Other	\$54,810	\$93,320	None	Less than 5 years	762
Medical and Health Services Managers	\$64,740	\$87,430	None	Less than 5 years	698
Management Analysts	\$45,960	\$74,290	None	Less than 5 years	624
Financial Managers	\$64,620	\$106,320	None	5 years or more	621
Sales Rep., Wholesale & Mfg, Tech./Sci. Prod.	\$41,240	\$68,370	Moderate-term on-the-job training	\$	610

Occupation Title	Starting Wage	Median Annual Wage	On-the-Job Training	Relevant Work Experience	Annual Job Openings*
Market Research Analysts and Marketing Specialists	\$37,860	\$59,510	None	\$	602
Human Resource Specialists	\$36,010	\$54,670	None	\$	452
Mechanical Engineers	\$52,240	\$73,010	None	\$	430
Sales Managers	\$69,960	\$111,860	None	Less than 5 years	396
Cost Estimators	\$37,260	\$56,610	None	\$	384
Business Operations Specialists, All Other	\$40,910	\$62,410	None	\$	374
Industrial Engineers	\$55,100	\$76,680	None	\$	366
Computer and Information Systems Managers	\$79,600	\$118,320	None	5 years or more	359
Industrial Production Managers	\$58,360	\$85,260	None	5 years or more	346
Purchasing Agents, ex. Whole., Retail, & Farm	\$42,850	\$61,070	Long-term on-the-job training	\$	342
Child, Family, and School Social Workers	\$30,580	\$39,010	None	\$	334
Loan Officers	\$34,670	\$57,530	Moderate-term on-the-job	\$	298
Civil Engineers	\$52,000	\$76,190	None	\$	286
Network and Comp. Systems Admins	\$50,350	\$69,550	None	\$	282
Administrative Services Managers	\$53,880	\$77,810	None	Less than 5 years	276
Financial Analysts	\$49,010	\$69,580	None	\$	273
Securities/Commodities/Fin. Serv. Sales Agents	\$32,560	\$59,990	Moderate-term on-the-job training	\$	272
Construction Managers	\$60,260	\$84,990	Moderate-term on-the-job training	\$	271
Mental Health and Substance Abuse Social Workers	\$29,420	\$37,310	None	\$	270
Training and Development Specialists	\$37,110	\$55,570	None	Less than 5 years	250
Graphic Designers	\$29,450	\$43,100	None	\$	244

Occupation Title	Starting Wage	Median Annual Wage	On-the-Job Training	Relevant Work Experience	Annual Job Openings*
Medical and Clinical Laboratory Technologists	\$48,920	\$58,060	None	\$	232
Architectural and Engineering Managers	\$87,930	\$120,520	None	5 years or more	226
Biofuels/Biodiesel Technology and Product Development Managers*	\$87,930	\$120,520	None	5 years or more	226
Validation Engineers*	\$53,310	\$84,560	None	\$	191
Robotics Engineers*	\$53,310	\$84,560	None	\$	191
Manufacturing Engineers*	\$53,310	\$84,552	None	\$	191
Computer Programmers	\$43,250	\$68,180	None	\$	184
Marketing Managers	\$76,010	\$118,730	None	5 years or more	173
Wholesale and Retail Buyers, Except Farm Products	\$38,610	\$54,060	Long-term on-the-job training	\$	171
Credit Analysts	\$45,870	\$65,170	None	\$	163
Human Resources Managers	\$71,250	\$100,130	None	5 years or more	163
Social and Community Service Managers	\$46,580	\$64,170	None	5 years or more	156
Database Administrators	\$50,900	\$75,890	None	Less than 5 years	152
Public Relations Specialists	\$34,450	\$49,520	None	\$	132
Aerospace Engineers	\$72,520	\$107,560	None	\$	129
Compliance Officers	\$37,990	\$56,470	Moderate-term on-the-job	\$	120
Environmental Compliance Inspectors*	\$37,990	\$56,470	Moderate-term on-the-job training	\$	120
Regulatory Affairs Specialists*	\$37,990	\$56,470	Moderate-term on-the-job training	\$	120
Software Developers, Systems Software	\$66,370	\$92,570	None	\$	120
Electrical Engineers	\$54,640	\$77,220	None	\$	119

Occupation Title	Starting Wage	Median Annual Wage	On-the-Job Training	Relevant Work Experience	Annual Job Openings*
Biological Technicians	\$29,670	\$38,917	None	\$	117
Operations Research Analysts	\$52,450	\$79,420	None	\$	112
Substance Abuse & Behavioral Dis. Counselors	\$30,770	\$40,890	None	\$	106
Software Quality Assurance Engineers and Testers*	\$47,040	\$78,240	None	\$	103
Computer Systems Engineers/Architects*	\$47,040	\$78,240	None	\$	103
Data Warehousing Specialists*	\$47,040	\$78,240	None	\$	103
Business Intelligence Analysts*	\$47,040	\$78,240	None	\$	103
Search Marketing Strategists*	\$47,040	\$78,240	None	\$	103
Information Technology Project Managers*	\$47,040	\$78,229	None	\$	103
Computer Network Architects	\$65,830	\$98,738	None	5 years or more	96
Telecommunications Engineering Specialists*	\$65,830	\$98,738	None	\$	96
Insurance Underwriters	\$43,800	\$61,340	Moderate-term on-the-job training	\$	93
Interpreters and Translators	\$26,620	\$41,370	Short-term on-the-job training	\$	91
Sales Engineers	\$58,220	\$93,040	Moderate-term on-the-job training	\$	91
Logisticians	\$48,630	\$69,590	None	\$	89
Logistics Analysts*	\$48,630	\$69,590	None	\$	89
Chemists	\$43,280	\$67,890	None	\$	85
Electronics Engineers, Except Computer	\$62,430	\$89,260	None	\$	83
Occupational Health and Safety Specialists	\$47,450	\$69,560	None	\$	69
Purchasing Managers	\$73,140	\$107,130	None	5 years or more	68

Occupation Title	Starting Wage	Median Annual Wage	On-the-Job Training	Relevant Work Experience	Annual Job Openings*
Information Security Analysts	\$57,620	\$80,780	None	Less than 5 years	55
Materials Engineers	\$60,630	\$89,680	None	§	53
Actuaries	\$59,460	\$89,430	Long-term on-the-job training	§	45
Chemical Engineers	\$57,250	\$86,110	None	§	40
Environmental Engineers	\$63,000	\$88,410	None	§	40
Technical Writers	\$43,930	\$59,450	Short-term on-the-job training	Less than 5 years	40
Natural Sciences Managers	\$68,580	\$111,910	None	5 years or more	27
Food Scientists and Technologists	\$39,730	\$54,538	None	§	26
Biomedical Engineers	\$47,430	\$68,224	None	§	25
Health & Safety Engineers, ex. Mining Safety and Inspectors	\$59,050	\$82,320	None	§	24
Computer Hardware Engineers	\$58,000	\$88,850	None	§	19
Materials Scientists	\$54,310	\$91,640	None	§	13
Personal Financial Advisor	\$44,600	\$79,640	None	§	0

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

‡ - “Starting Wage” data unavailable | § - “Relevant Work Experience” data 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*
Healthcare Social Workers	\$41,480	\$54,100	None	§	282
Speech-Language Pathologists	\$50,270	\$71,840	None	§	269
Nurse Practitioners	\$81,840	\$94,560	None	§	230
Occupational Therapists	\$59,920	\$79,810	None	§	214
Mental Health Counselors	\$32,190	\$43,270	Internship/residency	§	158
Physician Assistants	\$82,300	\$101,190	None	§	106
Instructional Designers and Technologists*	\$35,300	\$59,600	None	5 years or more	48
Statisticians	\$49,480	\$79,690	None	§	44

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

‡ - “Starting Wage” data unavailable | § - “Relevant Work Experience” data 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*
Physical Therapist Assistants	\$43,960	\$55,700	None	\$	339
Dental Hygienists	\$54,330	\$67,500	None	\$	259
Radiologic Technologists	\$41,140	\$53,120	None	\$	259
Medical and Clinical Laboratory Technicians	\$31,450	\$41,850	None	\$	232
Paralegals and Legal Assistants	\$30,280	\$43,450	None	\$	221
Web Developers	\$36,120	\$58,710	None	\$	205
Respiratory Therapists	\$43,200	\$53,900	None	\$	194
Occupational Therapist Assistants	\$46,710	\$56,820	None	\$	177
Computer Network Support Specialists	\$36,160	\$54,470	None	\$	148
Veterinary Technologists and Technicians	\$26,050	\$31,230	None	\$	98
Electrical and Electronic Engineering Technicians	\$38,120	\$59,680	None	\$	89

Occupation Title	Starting Wage	Median Annual Wage	On-the-Job Training	Relevant Work Experience	Annual Job Openings*
Electronics Engineering Technicians*	\$38,120	\$59,680	None	§	89
Electrical Engineering Technicians*	\$38,120	\$59,680	None	§	89
Electrical Engineering Technologists*	\$38,820	\$55,070	None	§	89
Manufacturing Production Technicians*	\$38,820	\$55,070	None	§	89
Non-Destructive Testing Specialists*	\$38,820	\$55,070	None	§	89
Diagnostic Medical Sonographers	\$51,870	\$62,650	None	§	88
Quality Control Analysts	\$31,930	\$46,170	None	§	73
Mechanical Engineering Technicians	\$36,050	\$48,280	None	§	69
Human Resources Assis., ex. Payroll & Timekp	\$28,100	\$36,950	None	§	56
Medical Equipment Repairers	\$33,400	\$50,500	Moderate-term on-the-job training	§	54
Magnetic Resonance Imaging Technologists	\$51,270	\$61,173	None	Less than 5 years	49
Mechanical Drafters	\$36,840	\$49,230	None	§	36
Nuclear Medicine Technologists	\$55,420	\$68,060	None	§	28
Electro-Mechanical Technicians	\$38,720	\$54,460	None	§	15
Avionics Technicians	\$43,990	\$58,520	None	§	10

*Statewide “Annual Job Openings” occupational projections - Bureau of Labor Market Information
§ - “Relevant Work Experience” data unavailable | ‡ - “Starting Wage” data unavailable

SECTION B:
**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 Bachelor's Degree and Corresponding In-Demand Occupations

UA Bachelor's Degree	Corresponding In-Demand Occupation(s)
Accounting	<ul style="list-style-type: none"> ▪ Accountants and Auditors ▪ Actuaries ▪ Business Intelligence Analysts ▪ Compliance Officers ▪ Cost Estimators ▪ Credit Analysts ▪ Financial Analysts ▪ Financial Managers ▪ Personal Financial Advisors ▪ Securities, Commodities, and Financial Services Sales Agents
Aerospace Systems Engineering	<ul style="list-style-type: none"> ▪ Aerospace Engineers ▪ Mechanical Engineers ▪ Robotics Engineers ▪ Sales Engineers ▪ Software Quality Assurance Engineers & Testers ▪ Validation Engineers
Applied Mathematics	<ul style="list-style-type: none"> ▪ Actuaries ▪ Business Intelligence Analysts ▪ Compliance Officers ▪ Cost Estimators ▪ Credit Analysts ▪ Financial Analysts ▪ Insurance Underwriters ▪ Logisticians ▪ Logistics Analysts ▪ Management Analysts ▪ Market Research Analysts and Marketing Specialists ▪ Operations Research Analysts ▪ Personal Financial Advisors ▪ Securities, Commodities, and Financial Service Sales Agents
Automated Manufacturing Engineering Technology	<ul style="list-style-type: none"> ▪ Industrial Engineers ▪ Industrial Production Managers ▪ Manufacturing Engineers ▪ Sales Engineers ▪ Software Quality Assurance Engineers & Testers

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

UA Bachelor's Degree	Corresponding In-Demand Occupation(s)
Biochemistry	<ul style="list-style-type: none"> ▪ Biofuels/Biodiesel Technology & Product Development Managers ▪ Biological Technicians ▪ Chemists ▪ Food Scientists and Technologists ▪ Medical and Clinical Laboratory Technologists ▪ Medical and Health Services Managers ▪ Natural Sciences Managers ▪ Occupational Health and Safety Specialists
Biology	<ul style="list-style-type: none"> ▪ Biological Technicians ▪ Environmental Compliance Inspectors ▪ Food Scientists and Technologists ▪ Materials Scientists ▪ Medical and Clinical Laboratory Technologists ▪ Medical and Health Services Managers ▪ Natural Sciences Managers ▪ Occupational Health and Safety Specialists ▪ Regulatory Affairs Specialists
Biomedical Engineering	<ul style="list-style-type: none"> ▪ Biological Technicians ▪ Biomedical Engineers ▪ Manufacturing Engineers ▪ Materials Engineers ▪ Mechanical Engineers ▪ Medical and Health Services Managers ▪ Natural Sciences Managers ▪ Robotics Engineers ▪ Sales Engineers ▪ Software Quality Assurance Engineers & Testers ▪ Validation Engineers
Biomedical Science	<ul style="list-style-type: none"> ▪ Biological Technicians ▪ Food Scientists and Technologists ▪ Medical and Clinical Laboratory Technologists ▪ Medical and Health Services Managers ▪ Natural Sciences Managers ▪ Occupational Health and Safety Specialists

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

UA Bachelor's Degree	Corresponding In-Demand Occupation(s)
<p>Business Administration</p>	<ul style="list-style-type: none"> ▪ Administrative Services Managers ▪ Business Operations Specialists, All Other ▪ Financial Managers ▪ General & Operations Managers ▪ Human Resources Managers ▪ Human Resources Specialists ▪ Industrial Production Managers ▪ Insurance Underwriter ▪ Loan Officers ▪ Management Analysts ▪ Managers, All Other ▪ Medical and Health Services Managers ▪ Personal Financial Advisors ▪ Purchasing Agents, except Wholesale, Retail & Farm ▪ Purchasing Managers ▪ Sales Managers ▪ Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products ▪ Search Marketing Strategists ▪ Securities, Commodities, and Financial Services Sales Agents ▪ Social & Community Service Managers ▪ Technical Writers ▪ Training and Development Specialists ▪ Wholesale & Retail Buyers, Except Farm Products
<p>Chemical Engineering</p>	<ul style="list-style-type: none"> ▪ Biofuels/Biodiesel Technology & Product Development Managers ▪ Chemical Engineers ▪ Chemists ▪ Environmental Engineers ▪ Health and Safety Engineers, Except Mining Safety Engineers and Inspectors ▪ Materials Engineers ▪ Natural Sciences Managers ▪ Occupational Health and Safety Specialists ▪ Sales Engineers ▪ Software Quality Assurance Engineers & Testers ▪ Validation Engineers

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

UA Bachelor's Degree	Corresponding In-Demand Occupation(s)
Chemistry <ul style="list-style-type: none"> ▪ Polymer Option 	<ul style="list-style-type: none"> ▪ Biofuels/Biodiesel Technology & Product Development Managers ▪ Biological Technicians ▪ Chemists ▪ Food Scientists and Technologists ▪ Materials Scientists ▪ Medical and Clinical Laboratory Technologists ▪ Medical and Health Services Managers ▪ Natural Sciences Managers ▪ Occupational Health and Safety Specialists ▪ Regulatory Affairs Specialists
Civil Engineering	<ul style="list-style-type: none"> ▪ Architectural and Engineering Managers ▪ Civil Engineers ▪ Construction Managers ▪ Environmental Engineers ▪ Materials Engineers ▪ Sales Engineers ▪ Software Quality Assurance Engineers & Testers ▪ Validation Engineers
Communication <ul style="list-style-type: none"> ▪ Media Studies ▪ Public Relations ▪ Strategic and Organizational Communication 	<ul style="list-style-type: none"> ▪ Administrative Services Managers ▪ General & Operations Managers ▪ Human Resources Managers ▪ Human Resources Specialists ▪ Managers, All Other ▪ Marketing Managers ▪ Market Research Analysts and Marketing Specialists ▪ Public Relations Specialists ▪ Purchasing Agents, except Wholesale, Retail, & Farm ▪ Sales Managers ▪ Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products ▪ Search Marketing Strategists ▪ Social & Community Service Managers ▪ Technical Writers ▪ Training and Development Specialists ▪ Wholesale & Retail Buyers, Except Farm Products

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

UA Bachelor's Degree	Corresponding In-Demand Occupation(s)
<p>Computer Engineering</p>	<ul style="list-style-type: none"> ▪ Computer Hardware Engineers ▪ Computer Programmers ▪ Computer Systems Engineers/Architects ▪ Operations Research Analysts ▪ Robotics Engineers ▪ Sales Engineers ▪ Software Developers, Applications ▪ Software Developers, Systems Software ▪ Software Quality Assurance Engineers & Testers ▪ Telecommunications Engineering Specialist ▪ Validation Engineers
<p>Computer Information Systems</p> <ul style="list-style-type: none"> ▪ Cyber Security ▪ Digital Forensics ▪ Networking Option ▪ Programming Option ▪ Specialized IT Applications ▪ Web Development 	<ul style="list-style-type: none"> ▪ Business Intelligence Analysts ▪ Computer and Information Systems Managers ▪ Computer Network Architects ▪ Computer Programmers ▪ Computer Systems Analysts ▪ Data Warehousing Specialists ▪ Database Administrators ▪ Information Technology Project Managers ▪ Information Security Analysts (Cyber Security) ▪ Network and Computer Systems Administrators ▪ Software Developers, Applications ▪ Software Developers, Systems Software

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

UA Bachelor's Degree	Corresponding In-Demand Occupation(s)
Computer Science	<ul style="list-style-type: none"> ▪ Business Intelligence Analysts ▪ Computer and Information Systems Managers ▪ Computer Hardware Engineers ▪ Computer Network Architects ▪ Computer Programmers ▪ Computer Systems Analysts ▪ Computer Systems Engineers/Architects ▪ Data Warehousing Specialists ▪ Information Security Analysts ▪ Information Technology Project Managers ▪ Network and Computer Systems Administrators ▪ Operations Research Analysts ▪ Software Developers, Applications ▪ Software Developers, Systems Software ▪ Software Quality Assurance Engineers & Testers
Construction Engineering Technology	<ul style="list-style-type: none"> ▪ Architectural and Engineering Managers ▪ Civil Engineers ▪ Construction Managers ▪ Cost Estimators ▪ Sales Engineers ▪ Software Quality Assurance Engineers & Testers
Corrosion Engineering	<ul style="list-style-type: none"> ▪ Biofuels/Biodiesel Technology & Product Development Managers ▪ Chemical Engineers ▪ Environmental Engineers ▪ Materials Engineers ▪ Sales Engineers ▪ Software Quality Assurance Engineers & Testers ▪ Validation Engineers
Dietetics	<ul style="list-style-type: none"> ▪ Food Scientists and Technologists ▪ Medical and Health Services Managers

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

UA Bachelor's Degree	Corresponding In-Demand Occupation(s)
<p>Economics</p> <ul style="list-style-type: none"> ▪ Labor Economics 	<ul style="list-style-type: none"> ▪ Actuaries ▪ Business Intelligence Analysts ▪ Business Operations Specialists, All Other ▪ Compliance Officers ▪ Cost Estimators ▪ Credit Analysts ▪ Environmental Compliance Inspectors ▪ Financial Analysts ▪ Financial Managers ▪ Human Resources Managers ▪ Human Resources Specialists ▪ Insurance Underwriters ▪ Loan Officers ▪ Logisticians ▪ Logistics Analysts ▪ Management Analysts ▪ Market Research Analysts and Marketing Specialists ▪ Operations Research Analysts ▪ Personal Financial Advisors ▪ Regulatory Affairs Specialists ▪ Securities, Commodities, and Financial Services Sales Agents
<p>Education</p>	<ul style="list-style-type: none"> ▪ Human Resources Specialists ▪ Training and Development Specialists
<p>Electrical Engineering</p>	<ul style="list-style-type: none"> ▪ Electrical Engineers ▪ Electronics Engineers, Except Computer ▪ Health and Safety Engineers, Except Mining Safety Engineers and Inspectors ▪ Materials Engineers ▪ Robotics Engineers ▪ Sales Engineers ▪ Software Quality Assurance Engineers & Testers ▪ Telecommunications Engineering Specialists ▪ Validation Engineers

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

UA Bachelor's Degree	Corresponding In-Demand Occupation(s)
Electronics Engineering Technology	<ul style="list-style-type: none"> ▪ Electrical Engineers ▪ Electronics Engineers, Except Computer ▪ Health and Safety Engineers, Except Mining Safety Engineers and Inspectors ▪ Robotics Engineers ▪ Sales Engineers ▪ Software Quality Assurance Engineers & Testers ▪ Telecommunications Engineering Specialists ▪ Validation Engineers
Emergency Management and Homeland Security	<ul style="list-style-type: none"> ▪ Information Security Analysts ▪ Occupational Health and Safety Specialists
English	<ul style="list-style-type: none"> ▪ Insurance Underwriters ▪ Public Relations Specialists ▪ Technical Writers ▪ Training and Development Specialists
Environmental Science	<ul style="list-style-type: none"> ▪ Environmental Compliance Inspectors
Exercise Science	<ul style="list-style-type: none"> ▪ Medical and Health Services Managers ▪ Occupational Health and Safety Specialists
Finance <ul style="list-style-type: none"> ▪ Financial Management ▪ Financial Planning ▪ Financial Services ▪ Risk Management and Insurance 	<ul style="list-style-type: none"> ▪ Actuaries ▪ Administrative Services Managers ▪ Compliance Officers ▪ Cost Estimators ▪ Credit Analysts ▪ Financial Analysts ▪ Financial Managers ▪ Insurance Underwriters ▪ Loan Officers ▪ Management Analysts ▪ Operations Research Analysts ▪ Personal Financial Advisors ▪ Purchasing Agents, except Wholesale, Retail, & Farm ▪ Purchasing Managers ▪ Securities, Commodities, and Financial Services Sales Agents ▪ Wholesale & Retail Buyers, Except Farm Products
Food and Environmental Nutrition	<ul style="list-style-type: none"> ▪ Food Scientists and Technologists
French	<ul style="list-style-type: none"> ▪ Interpreters and Translators

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

UA Bachelor's Degree	Corresponding In-Demand Occupation(s)
Geosciences <ul style="list-style-type: none"> ▪ Earth Sciences ▪ Environmental Sciences ▪ Geographic Information Sciences ▪ Geology ▪ Natural Sciences 	<ul style="list-style-type: none"> ▪ Environmental Compliance Inspectors ▪ Materials Scientists ▪ Natural Sciences Managers ▪ Occupational Health and Safety Specialists
Graphic Design	<ul style="list-style-type: none"> ▪ Graphic Designers
Human Resource Management	<ul style="list-style-type: none"> ▪ Administrative Services Managers ▪ Business Operations Specialists, All Other ▪ Human Resources Managers ▪ Human Resources Specialists ▪ Managers, All Other ▪ Social & Community Service Managers ▪ Training and Development Specialists
Information Systems Management	<ul style="list-style-type: none"> ▪ Business Intelligence Analysts ▪ Computer and Information Systems Managers ▪ Computer Network Architects ▪ Data Warehousing Specialists ▪ Database Administrators ▪ Information Security Analysts ▪ Information Technology Project Managers ▪ Logisticians ▪ Managers, All Other ▪ Network and Computer Systems Administrators
Integrated Marketing Communications	<ul style="list-style-type: none"> ▪ Market Research Analysts and Marketing Specialists ▪ Marketing Managers ▪ Public Relations Specialists ▪ Sales Managers ▪ Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products ▪ Search Marketing Strategists ▪ Social & Community Service Managers ▪ Technical Writers
Manufacturing Engineering Technology	<ul style="list-style-type: none"> ▪ General & Operations Managers ▪ Sales Engineers ▪ Software Quality Assurance Engineers & Testers

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

UA Bachelor's Degree	Corresponding In-Demand Occupation(s)
Marketing Management	<ul style="list-style-type: none"> ▪ Administrative Services Managers ▪ Managers, All Other ▪ Market Research Analysts and Marketing Specialists ▪ Marketing Managers ▪ Public Relations Specialists ▪ Sales Managers ▪ Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products ▪ Search Marketing Strategists ▪ Social & Community Service Managers ▪ Technical Writers
Mathematics	<ul style="list-style-type: none"> ▪ Actuaries ▪ Business Intelligence Analysts ▪ Compliance Officers ▪ Cost Estimators ▪ Credit Analysts ▪ Financial Analysts ▪ Insurance Underwriters ▪ Logisticians ▪ Logistics Analysts ▪ Management Analysts ▪ Market Research Analysts and Marketing Specialists ▪ Operations Research Analysts ▪ Personal Financial Advisors ▪ Securities, Commodities, and Financial Services Sales Agents
Mechanical Engineering	<ul style="list-style-type: none"> ▪ Environmental Engineers ▪ Health and Safety Engineers, Except Mining Safety Engineers and Inspectors ▪ Industrial Engineers ▪ Industrial Production Managers ▪ Manufacturing Engineers ▪ Materials Engineers ▪ Mechanical Engineers ▪ Operations Research Analysts ▪ Robotics Engineers ▪ Sales Engineers ▪ Software Quality Assurance Engineers & Testers ▪ Validation Engineers

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

UA Bachelor's Degree	Corresponding In-Demand Occupation(s)
Mechanical Engineering Technology	<ul style="list-style-type: none"> ▪ Environmental Engineers ▪ General & Operations Managers ▪ Health and Safety Engineers, Except Mining Safety Engineers and Inspectors ▪ Industrial Engineers ▪ Industrial Production Managers ▪ Manufacturing Engineers ▪ Materials Engineers ▪ Mechanical Engineers ▪ Operations Research Analysts ▪ Robotics Engineers ▪ Sales Engineers ▪ Software Quality Assurance Engineers & Testers
Nursing	<ul style="list-style-type: none"> ▪ Medical and Health Services Managers ▪ Registered Nurses
Organizational Supervision	<ul style="list-style-type: none"> ▪ Administrative Services Managers ▪ Business Operations Specialists, All Other ▪ Compliance Officers ▪ General & Operations Managers ▪ Human Resources Managers ▪ Human Resources Specialists ▪ Industrial Production Managers ▪ Loan Officers ▪ Managers, All Other ▪ Sales Managers ▪ Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products ▪ Social & Community Service Managers ▪ Training and Development Specialists
Physics	<ul style="list-style-type: none"> ▪ Materials Scientists ▪ Natural Sciences Managers ▪ Occupational Health and Safety Specialists
Political Science	<ul style="list-style-type: none"> ▪ Regulatory Affairs Specialists
Psychology	<ul style="list-style-type: none"> ▪ Human Resources Managers ▪ Human Resources Specialists ▪ Social & Community Service Managers ▪ Substance Abuse & Behavioral Disorder Counselors ▪ Training and Development Specialists
Respiratory Therapy Technology	<ul style="list-style-type: none"> ▪ Medical and Clinical Laboratory Technologists

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

UA Bachelor's Degree	Corresponding In-Demand Occupation(s)
Sales Management	<ul style="list-style-type: none"> ▪ Administrative Services Managers ▪ Financial Managers ▪ Managers, All Other ▪ Purchasing Agents, except Wholesale, Retail, & Farm ▪ Purchasing Managers ▪ Sales Engineers ▪ Sales Managers ▪ Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products ▪ Securities, Commodities, and Financial Services Sales Agents ▪ Wholesale & Retail Buyers, Except Farm Products
Social Work	<ul style="list-style-type: none"> ▪ Child, Family, and School Social Workers ▪ Mental Health and Substance Abuse Social Workers ▪ Social & Community Service Managers ▪ Substance Abuse & Behavioral Disorder Counselors
Sociology	<ul style="list-style-type: none"> ▪ Human Resources Managers ▪ Human Resources Specialists ▪ Social & Community Service Managers ▪ Substance Abuse & Behavioral Disorder Counselors ▪ Training and Development Specialists
Spanish	<ul style="list-style-type: none"> ▪ Interpreters and Translators
Statistics <ul style="list-style-type: none"> ▪ Actuarial Science ▪ Data Science 	<ul style="list-style-type: none"> ▪ Actuaries ▪ Business Intelligence Analysts ▪ Compliance Officer ▪ Cost Estimators ▪ Credit Analysts ▪ Financial Analysts ▪ Insurance Underwriters ▪ Logisticians ▪ Logistics Analysts ▪ Management Analysts ▪ Market Research Analysts and Marketing Specialists ▪ Operations Research Analysts ▪ Personal Financial Advisors ▪ Securities, Commodities, and Financial Services Sales Agents

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

UA Bachelor's Degree	Corresponding In-Demand Occupation(s)
<p>Supply Chain/Operations Management</p>	<ul style="list-style-type: none"> ▪ Administrative Services Managers ▪ Business Operations Specialists, All Other ▪ Compliance Officers ▪ General & Operations Managers ▪ Industrial Production Managers ▪ Logisticians ▪ Logistics Analysts ▪ Managers, All Other ▪ Operations Research Analysts ▪ Purchasing Agents, except Wholesale, Retail & Farm ▪ Purchasing Managers ▪ Securities, Commodities, and Financial Services Sales Agents ▪ Wholesale & Retail Buyers, Except Farm Products

UA Master's Degree and Corresponding In-Demand Occupations

UA Master's Degree	Corresponding In-Demand Occupation
Adult/Gerontological Health Nursing-Nurse Practitioner (MSN)	▪ Nurse Practitioners
Child and Adolescent Health Nurse Practitioner-Acute Care (MSN)	▪ Nurse Practitioners
Child and Adolescent Health Nurse Practitioner-Primary Care (MSN)	▪ Nurse Practitioners
Clinical Mental Health Counseling (MA/MS)	▪ Mental Health Counselors
Educational Foundations – Assessment and Evaluation (online MA)	▪ Instructional Designers & Technologists
Educational Foundations – Instructional Technology (online MA)	▪ Instructional Designers & Technologists
Family Psychiatric/Mental Health Nurse Practitioner (MSN)	▪ Nurse Practitioners
Social Work (MSW)	▪ Healthcare Social Workers
Speech-Language Pathology (MA)	▪ Speech-Language Pathologist
Applied Mathematics (MS) Mathematics (MS) Statistics (MS)	▪ Statistician

UA Associate's Degrees and Corresponding In-Demand Occupations

UA Associate's Degree	Corresponding In-Demand Occupation(s)
Automated Manufacturing Engineering Technology	<ul style="list-style-type: none"> ▪ Manufacturing Production Technicians
Business Management Technology	<ul style="list-style-type: none"> ▪ Human Resources Assistants, except Payroll & Timekeeping ▪ Quality Control Analysts
Computer Information Systems	<ul style="list-style-type: none"> ▪ Computer Network Support Specialists ▪ Web Developers ▪ Quality Control Analysts
Corrosion Engineering Technology	<ul style="list-style-type: none"> ▪ Non-Destructive Testing Specialists ▪ Quality Control Analysts
Electronic Engineering Technology	<ul style="list-style-type: none"> ▪ Electrical and Electronic Engineering Technicians ▪ Electrical Engineering Technicians ▪ Electrical Engineering Technologists ▪ Electronics Engineering Technicians ▪ Electro-Mechanical Technicians
Manufacturing Engineering Technology	<ul style="list-style-type: none"> ▪ Avionics Technicians ▪ Non-Destructive Testing Specialists ▪ Quality Control Analysts
Mechanical Engineering Technology	<ul style="list-style-type: none"> ▪ Avionics Technicians ▪ Electro-Mechanical Technicians ▪ Mechanical Drafters ▪ Mechanical Engineering Technicians ▪ Non-Destructive Testing Specialists ▪ Quality Control Analysts
Medical Assisting Technology	<ul style="list-style-type: none"> ▪ Medical and Clinical Laboratory Technicians
Radiologic Technology	<ul style="list-style-type: none"> ▪ Diagnostic Medical Sonographers ▪ Magnetic Resonance Imaging Technologist ▪ Nuclear Medicine Technologists ▪ Radiologic Technologists and Technicians

SECTION C:

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 Bachelor's Degree

In-Demand Occupation	Suggested UA Bachelor's Degree
Accountants and Auditors	<ul style="list-style-type: none"> ▪ Accounting
Actuaries	<ul style="list-style-type: none"> ▪ Accounting ▪ Applied Mathematics ▪ Economics ▪ Finance (Risk Management and Insurance) ▪ Mathematics ▪ Statistics (Actuarial Science)
Administrative Services Managers	<ul style="list-style-type: none"> ▪ Business Administration ▪ Communication ▪ Finance ▪ Human Resource Management ▪ Marketing Management ▪ Organizational Supervision ▪ Sales Management ▪ Supply Chain/Operations Management
Aerospace Engineers	<ul style="list-style-type: none"> ▪ Aerospace Systems Engineering
Architectural and Engineering Managers	<ul style="list-style-type: none"> ▪ Civil Engineering ▪ Construction Engineering Technology
Biofuels/Biodiesel Technology & Product Development Managers	<ul style="list-style-type: none"> ▪ Biochemistry ▪ Chemical Engineering ▪ Chemistry ▪ Corrosion Engineering
Biological Technicians	<ul style="list-style-type: none"> ▪ Biochemistry ▪ Biology ▪ Biomedical Engineering ▪ Biomedical Science ▪ Chemistry
Biomedical Engineers	<ul style="list-style-type: none"> ▪ Biomedical Engineering
Business Intelligence Analysts	<ul style="list-style-type: none"> ▪ Accounting ▪ Applied Mathematics ▪ Computer Information Systems ▪ Computer Science ▪ Economics ▪ Information Systems Management ▪ Mathematics ▪ Statistics

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

In-Demand Occupation	Suggested UA Bachelor's Degree
Business Operations Specialists, All Other	<ul style="list-style-type: none"> ▪ Business Administration ▪ Economics (Labor) ▪ Human Resource Management ▪ Supply Chain/Operations Management ▪ Organizational Supervision
Chemical Engineers	<ul style="list-style-type: none"> ▪ Chemical Engineering ▪ Corrosion Engineering
Chemists	<ul style="list-style-type: none"> ▪ Biochemistry ▪ Chemistry ▪ Chemical Engineering
Child, Family, and School Social Workers	<ul style="list-style-type: none"> ▪ Social Work
Civil Engineers	<ul style="list-style-type: none"> ▪ Civil Engineering ▪ Construction Engineering Technology
Compliance Officers	<ul style="list-style-type: none"> ▪ Accounting ▪ Applied Mathematics ▪ Economics (Labor) ▪ Finance ▪ Mathematics ▪ Organizational Supervision ▪ Statistics ▪ Supply Chain/ Operations Management
Computer and Information Systems Managers	<ul style="list-style-type: none"> ▪ Computer Information Systems ▪ Computer Science ▪ Information Systems Management
Computer Hardware Engineers	<ul style="list-style-type: none"> ▪ Computer Engineering ▪ Computer Science
Computer Network Architects	<ul style="list-style-type: none"> ▪ Computer Information Systems ▪ Computer Science ▪ Information Systems Management
Computer Programmers	<ul style="list-style-type: none"> ▪ Computer Engineering ▪ Computer Information Systems ▪ Computer Science
Computer Systems Analysts	<ul style="list-style-type: none"> ▪ Computer Information Systems ▪ Computer Information Systems (Cyber Security) ▪ Computer Science
Computer Systems Engineers/Architects	<ul style="list-style-type: none"> ▪ Computer Engineering ▪ Computer Science

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

In-Demand Occupation	Suggested UA Bachelor's Degree
Construction Managers	<ul style="list-style-type: none"> ▪ Civil Engineering ▪ Construction Engineering Technology
Cost Estimators	<ul style="list-style-type: none"> ▪ Accounting ▪ Applied Mathematics ▪ Construction Engineering Technology ▪ Economics ▪ Finance ▪ Mathematics ▪ Statistics
Credit Analysts	<ul style="list-style-type: none"> ▪ Accounting ▪ Applied Mathematics ▪ Economics ▪ Finance ▪ Mathematics ▪ Statistics
Data Warehousing Specialists	<ul style="list-style-type: none"> ▪ Computer Information Systems ▪ Computer Science ▪ Information Systems Management
Database Administrators	<ul style="list-style-type: none"> ▪ Computer Information Systems ▪ Information Systems Management
Electrical Engineers	<ul style="list-style-type: none"> ▪ Electrical Engineering ▪ Electronics Engineering Technology
Electronics Engineers, Except Computer	<ul style="list-style-type: none"> ▪ Electrical Engineering ▪ Electronics Engineering Technology
Environmental Compliance Inspectors	<ul style="list-style-type: none"> ▪ Biology ▪ Economics ▪ Environmental Science ▪ Geosciences
Environmental Engineers	<ul style="list-style-type: none"> ▪ Chemical Engineering ▪ Civil Engineering ▪ Corrosion Engineering ▪ Mechanical Engineering ▪ Mechanical Engineering Technology

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

In-Demand Occupation	Suggested UA Bachelor's Degree
Financial Analysts	<ul style="list-style-type: none"> ▪ Accounting ▪ Applied Mathematics ▪ Economics ▪ Finance ▪ Mathematics ▪ Statistics
Financial Managers	<ul style="list-style-type: none"> ▪ Accounting ▪ Business Administration ▪ Economics ▪ Finance ▪ Sales Management
Food Scientists and Technologists	<ul style="list-style-type: none"> ▪ Biochemistry ▪ Biology ▪ Biomedical Science ▪ Chemistry ▪ Dietetics ▪ Food and Environmental Nutrition
General & Operations Managers	<ul style="list-style-type: none"> ▪ Business Administration ▪ Communication ▪ Manufacturing Engineering Technology ▪ Mechanical Engineering Technology ▪ Organizational Supervision ▪ Supply Chain/Operations Management
Graphic Designers	<ul style="list-style-type: none"> ▪ Graphic Design
Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	<ul style="list-style-type: none"> ▪ Chemical Engineering ▪ Electrical Engineering ▪ Electronics Engineering Technology ▪ Mechanical Engineering ▪ Mechanical Engineering Technology
Human Resources Managers	<ul style="list-style-type: none"> ▪ Business Administration ▪ Communication ▪ Economics (Labor) ▪ Human Resource Management ▪ Organizational Supervision ▪ Psychology ▪ Sociology

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

In-Demand Occupation	Suggested UA Bachelor's Degree
Human Resources Specialists	<ul style="list-style-type: none"> ▪ Business Administration ▪ Communication ▪ Economics (Labor) ▪ Education ▪ Human Resource Management ▪ Organizational Supervision ▪ Psychology ▪ Sociology
Industrial Engineers	<ul style="list-style-type: none"> ▪ Automated Manufacturing Engineering Technology ▪ Mechanical Engineering ▪ Mechanical Engineering Technology
Industrial Production Managers	<ul style="list-style-type: none"> ▪ Automated Manufacturing Engineering Technology ▪ Business Administration ▪ Mechanical Engineering ▪ Mechanical Engineering Technology ▪ Organizational Supervision ▪ Supply Chain/Operations Management
Information Security Analysts	<ul style="list-style-type: none"> ▪ Computer Information Systems (Cyber Security) ▪ Computer Science ▪ Emergency Management and Homeland Security ▪ Information Systems Management
Information Technology Project Managers	<ul style="list-style-type: none"> ▪ Computer Information Systems ▪ Computer Science ▪ Information Systems Management
Insurance Underwriters	<ul style="list-style-type: none"> ▪ Applied Mathematics ▪ Business Administration ▪ Economics ▪ English ▪ Finance ▪ Mathematics ▪ Statistics
Interpreters and Translators	<ul style="list-style-type: none"> ▪ French ▪ Spanish ▪ Minors/Certificates available in American Sign Language and other languages
Loan Officers	<ul style="list-style-type: none"> ▪ Business Administration ▪ Economics ▪ Finance ▪ Organizational Supervision

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

In-Demand Occupation	Suggested UA Bachelor's Degree
Logisticians	<ul style="list-style-type: none"> ▪ Applied Mathematics ▪ Economics ▪ Information Systems Management ▪ Mathematics ▪ Statistics ▪ Supply Chain/Operations Management
Logistics Analysts	<ul style="list-style-type: none"> ▪ Applied Mathematics ▪ Economics ▪ Mathematics ▪ Statistics ▪ Supply Chain/Operations Management
Management Analysts	<ul style="list-style-type: none"> ▪ Applied Mathematics ▪ Business Administration ▪ Economics ▪ Finance ▪ Mathematics ▪ Statistics
Managers, All Other	<ul style="list-style-type: none"> ▪ Business Administration ▪ Communication ▪ Human Resource Management ▪ Information Systems Management ▪ Marketing Management ▪ Organizational Supervision ▪ Sales Management ▪ Supply Chain/Operations Management
Manufacturing Engineers	<ul style="list-style-type: none"> ▪ Automated Manufacturing Engineering Technology ▪ Biomedical Engineering ▪ Mechanical Engineering ▪ Mechanical Engineering Technology
Market Research Analysts and Marketing Specialists	<ul style="list-style-type: none"> ▪ Applied Mathematics ▪ Communication ▪ Economics ▪ Integrated Marketing Communications ▪ Marketing Management ▪ Mathematics ▪ Statistics

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

In-Demand Occupation	Suggested UA Bachelor's Degree
Marketing Managers	<ul style="list-style-type: none"> ▪ Communication ▪ Integrated Marketing Communications ▪ Marketing Management
Materials Engineers	<ul style="list-style-type: none"> ▪ Biomedical Engineering ▪ Chemical Engineering ▪ Civil Engineering ▪ Corrosion Engineering ▪ Electrical Engineering ▪ Mechanical Engineering ▪ Mechanical Engineering Technology
Materials Scientists	<ul style="list-style-type: none"> ▪ Biology ▪ Chemistry ▪ Geosciences (Natural Sciences) ▪ Physics
Mechanical Engineers	<ul style="list-style-type: none"> ▪ Aerospace Systems Engineering ▪ Biomedical Engineering ▪ Mechanical Engineering ▪ Mechanical Engineering Technology
Medical and Clinical Laboratory Technologists	<ul style="list-style-type: none"> ▪ Biochemistry ▪ Biology ▪ Biomedical Science ▪ Chemistry ▪ Respiratory Therapy Technology
Medical and Health Services Managers	<ul style="list-style-type: none"> ▪ Biochemistry ▪ Biology ▪ Biomedical Engineering ▪ Biomedical Science ▪ Business Administration ▪ Chemistry ▪ Dietetics ▪ Exercise Science ▪ Nursing
Mental Health and Substance Abuse Social Workers	<ul style="list-style-type: none"> ▪ Social Work

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

In-Demand Occupation	Suggested UA Bachelor's Degree
Natural Sciences Managers	<ul style="list-style-type: none"> ▪ Biochemistry ▪ Biology ▪ Biomedical Engineering ▪ Biomedical Sciences ▪ Chemical Engineering ▪ Chemistry ▪ Geosciences (Earth Science) ▪ Geosciences (Geology) ▪ Geosciences (Natural Sciences) ▪ Physics
Network and Computer Systems Administrators	<ul style="list-style-type: none"> ▪ Computer Information Systems ▪ Computer Science ▪ Information Systems Management
Occupational Health and Safety Specialists	<ul style="list-style-type: none"> ▪ Biochemistry ▪ Biology ▪ Biomedical Science ▪ Chemical Engineering ▪ Chemistry ▪ Emergency Management and Homeland Security ▪ Exercise Science ▪ Geosciences ▪ Physics
Operations Research Analysts	<ul style="list-style-type: none"> ▪ Applied Mathematics ▪ Computer Engineering ▪ Computer Science ▪ Economics ▪ Finance ▪ Mathematics ▪ Mechanical Engineering ▪ Mechanical Engineering Technology ▪ Statistics ▪ Supply Chain/Operations Management

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

In-Demand Occupation	Suggested UA Bachelor's Degree
Personal Financial Advisors	<ul style="list-style-type: none"> ▪ Accounting ▪ Applied Mathematics ▪ Business Administration ▪ Economics ▪ Finance ▪ Mathematics ▪ Statistics
Public Relations Specialists	<ul style="list-style-type: none"> ▪ Communication (Public Relations) ▪ English ▪ Integrated Marketing Communications ▪ Marketing Management
Purchasing Agents, except Wholesale, Retail, & Farm	<ul style="list-style-type: none"> ▪ Business Administration ▪ Communication ▪ Finance ▪ Sales Management ▪ Supply Chain/Operations Management
Purchasing Managers	<ul style="list-style-type: none"> ▪ Business Administration ▪ Finance ▪ Sales Management ▪ Supply Chain/Operations Management
Registered Nurses	<ul style="list-style-type: none"> ▪ Nursing
Regulatory Affairs Specialists	<ul style="list-style-type: none"> ▪ Biology ▪ Chemistry ▪ Economics ▪ Political Science
Robotics Engineers	<ul style="list-style-type: none"> ▪ Aerospace Systems Engineering ▪ Biomedical Engineering ▪ Computer Engineering ▪ Electrical Engineering ▪ Electronics Engineering Technology ▪ Mechanical Engineering ▪ Mechanical Engineering Technology
Sales Engineers	<ul style="list-style-type: none"> ▪ Engineering (All) ▪ Engineering Technology (All) ▪ Sales Management

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

In-Demand Occupation	Suggested UA Bachelor's Degree
Sales Managers	<ul style="list-style-type: none"> ▪ Business Administration ▪ Communication ▪ Integrated Marketing Communications ▪ Marketing Management ▪ Organizational Supervision ▪ Sales Management
Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	<ul style="list-style-type: none"> ▪ Business Administration ▪ Communication ▪ Integrated Marketing Communications ▪ Marketing Management ▪ Organizational Supervision ▪ Sales Management
Search Marketing Strategists	<ul style="list-style-type: none"> ▪ Business Administration ▪ Communication ▪ Integrated Marketing Communications ▪ Marketing Management
Securities, Commodities, and Financial Services Sales Agents	<ul style="list-style-type: none"> ▪ Accounting ▪ Applied Mathematics ▪ Business Administration ▪ Economics ▪ Finance ▪ Mathematics ▪ Sales Management ▪ Statistics ▪ Supply Chain/Operation Management
Social & Community Service Managers	<ul style="list-style-type: none"> ▪ Business Administration ▪ Communication ▪ Human Resource Management ▪ Integrated Marketing Communications ▪ Marketing Management ▪ Organizational Supervision ▪ Psychology ▪ Social Work ▪ Sociology
Software Developers, Applications	<ul style="list-style-type: none"> ▪ Computer Engineering ▪ Computer Information Systems ▪ Computer Science

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

In-Demand Occupation	Suggested UA Bachelor's Degree
Software Developers, Systems Software	<ul style="list-style-type: none"> ▪ Computer Engineering ▪ Computer Information Systems ▪ Computer Science
Software Quality Assurance Engineers & Testers	<ul style="list-style-type: none"> ▪ Computer Science ▪ Engineering (All) ▪ Engineering Technology (All)
Substance Abuse & Behavioral Disorder Counselors	<ul style="list-style-type: none"> ▪ Psychology ▪ Social Work ▪ Sociology
Technical Writers	<ul style="list-style-type: none"> ▪ Business Administration ▪ Communication ▪ English ▪ Integrated Marketing Communications ▪ Marketing Management
Telecommunications Engineering Specialists	<ul style="list-style-type: none"> ▪ Computer Engineering ▪ Electrical Engineering ▪ Electronics Engineering Technology
Training and Development Specialists	<ul style="list-style-type: none"> ▪ Business Administration ▪ Communication ▪ Education ▪ English ▪ Human Resource Management ▪ Organizational Supervision ▪ Psychology ▪ Sociology
Validation Engineers	<ul style="list-style-type: none"> ▪ Electronics Engineering Technology ▪ Engineering (All)
Wholesale & Retail Buyers, Except Farm Products	<ul style="list-style-type: none"> ▪ Business Administration ▪ Communication ▪ Finance ▪ Sales Management ▪ Supply Chain/Operations Management

In-Demand Occupations and Corresponding UA Master's Degree

In-Demand Occupations	Suggested UA Master's Degree
Healthcare Social Workers	<ul style="list-style-type: none"> ▪ Social Work (MSW)
Instructional Designers & Technologists	<ul style="list-style-type: none"> ▪ Educational Foundations – Assessment and Evaluation (online MA) ▪ Educational Foundations – Instructional Technology (online MA)
Mental Health Counselors	<ul style="list-style-type: none"> ▪ Clinical Mental Health Counseling (MA/MS)
Nurse Practitioners	<ul style="list-style-type: none"> ▪ Adult/Gerontological Health Nursing – Nurse Practitioner (MSN) ▪ Child and Adolescent Health Nurse Practitioner – Acute Care (MSN) ▪ Child and Adolescent Health Nurse Practitioner – Primary Care (MSN) ▪ Family Psychiatric/Mental Health Nurse Practitioner (MSN)
Speech-Language Pathologists	<ul style="list-style-type: none"> ▪ Speech-Language Pathology (MA)
Statisticians	<ul style="list-style-type: none"> ▪ Applied Mathematics (MS) ▪ Mathematics (MS) ▪ Statistics (MS)

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.

<ul style="list-style-type: none"> ▪ Occupational Therapist ▪ Physician Assistant

In-Demand Occupations and Corresponding UA Associate's Degrees

In-Demand Occupation	Suggested UA Associate's Degrees
Avionics Technicians	<ul style="list-style-type: none"> ▪ Manufacturing Engineering Technology ▪ Mechanical Engineering Technology
Computer Network Support Specialists	<ul style="list-style-type: none"> ▪ Computer Information Systems
Diagnostic Medical Sonographers	<ul style="list-style-type: none"> ▪ Radiologic Technology
Electrical and Electronic Engineering Technicians	<ul style="list-style-type: none"> ▪ Electronic Engineering Technology
Electrical Engineering Technicians	<ul style="list-style-type: none"> ▪ Electronic Engineering Technology
Electrical Engineering Technologists	<ul style="list-style-type: none"> ▪ Electronic Engineering Technology
Electronics Engineering Technicians	<ul style="list-style-type: none"> ▪ Electronic Engineering Technology
Electro-Mechanical Technicians	<ul style="list-style-type: none"> ▪ Electronic Engineering Technology ▪ Mechanical Engineering Technology
Human Resources Assistants, except Payroll & Timekeeping	<ul style="list-style-type: none"> ▪ Business Management Technology
Magnetic Resonance Imaging Technologists	<ul style="list-style-type: none"> ▪ Radiologic Technology
Manufacturing Production Technicians	<ul style="list-style-type: none"> ▪ Automated Manufacturing Engineering Technology
Mechanical Drafters	<ul style="list-style-type: none"> ▪ Mechanical Engineering Technology
Mechanical Engineering Technicians	<ul style="list-style-type: none"> ▪ Mechanical Engineering Technology
Medical and Clinical Laboratory Technicians	<ul style="list-style-type: none"> ▪ Medical Assisting Technology
Non-Destructive Testing Specialists	<ul style="list-style-type: none"> ▪ Corrosion Engineering Technology ▪ Manufacturing Engineering Technology ▪ Mechanical Engineering Technology
Nuclear Medicine Technologists	<ul style="list-style-type: none"> ▪ Radiologic Technology
Radiologic Technologists	<ul style="list-style-type: none"> ▪ Radiologic Technology
Web Developers	<ul style="list-style-type: none"> ▪ Computer Information Systems
Quality Control Analysts	<ul style="list-style-type: none"> ▪ Business Management Technology ▪ Computer Information Systems ▪ Corrosion Engineering Technology ▪ Manufacturing Engineering Technology ▪ Mechanical Engineering Technology

In-Demand Occupations and Corresponding UA Associate's Degrees

In-Demand Associate's Degree Occupations Available at UA at the Bachelor's Degree Level

In-Demand Associate's Degree Occupation	Available at UA as a Bachelor's Degree
Medical Equipment Repairers	▪ Bachelor of Science in Biomedical Engineering
Respiratory Therapists	▪ Bachelor of Science in Respiratory Therapy

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

- Dental Hygienists
- Occupational Therapy Assistants
- Paralegals and Legal Assistants
- Physical Therapy Assistants
- Veterinary Technologists and Technicians

SECTION D:

The University of Akron Majors and Degrees

UA Bachelor's Degrees

UA Master's Degrees

UA Associate's Degrees

THE UNIVERSITY OF AKRON MAJORS

BACHELOR'S DEGREE

Buchtel College of Arts and Sciences

Anthropology (Interdisciplinary)
Applied Mathematics
Applied Mathematics B.S./M.S.
Applied Mathematics/Business
Administration B.S./M.B.A.
Applied Mathematics/Economics B.S./M.A.
Applied Mathematics/ Polymer
Engineering B.S./M.S.
Art
• Art Education
• Art History
• Ceramics
• Graphic Design
• Jewelry and Metalsmithing
• Painting and Drawing
• Photography
• Printmaking
• Sculpture
• Studio Art
Humanities Division
Natural Sciences Division
• Natural Sciences B.S./M.D.
• Natural Sciences Polymer Chemistry B.S./M.S.
Social Sciences Division
• Philosophy, Political Science and Economics
• Philosophy, Sociology and Psychology
Biochemistry
Biology
Biomedical Science
Chemistry
• Polymer Option
Child and Family Development
• Child Development
• Family Development
Communication
• Media Studies
• Public Relations
• Strategic and Organizational Communication
Computer Science
• Management Track
• System Track

Dance
• Dance Studies with Business Cognate
English
Fashion Merchandising
• Apparel
• Fiber Arts
• Home Furnishings
French
• French and Francophone Studies
• French Language, Literature and Culture
Geosciences
• Earth Science
• Environmental Science
• Geographic Information Science
• Geology
History
History B.A./M.A.
Interior Design
Mathematics
Mathematics B.S./M.S.
Multidisciplinary Studies
Music
• Composition
• Jazz Studies
• Music Education
• Performance
- Accompanying
- Brass
- Guitar
- Percussion
- Piano
- Strings
- Voice
- Woodwinds
Philosophy
Physics
Political Science
Political Science/Criminal Justice
Preprofessional areas of study:
• Pre-Dental
• Pre-Law
• Pre-Medical
• Pre-Pharmacy
• Pre-Veterinary
Psychology
Sociology
Sociology/Criminology and Law Enforcement
Spanish
Statistics
• Actuarial Science
• Data Science

Theatre
• Applied Theatre and Business
Entrepreneurship
• Applied Theatre and Social
Entrepreneurship
• Film Studies
• Physical Theatre
• Teacher Education
Undecided Arts and Sciences

College of Applied Science and Technology

Automated Manufacturing
Engineering Technology
Computer Information Systems
• Cyber Security
• Digital Forensics
• Networking
• Programming
• Specialized IT Applications
• Web Development
Construction Engineering
Technology
Electronic Engineering Technology
Emergency Management and
Homeland Security
Mechanical Engineering
Technology
Organizational Supervision
Surveying and Mapping Technology
Undecided Applied Science and Technology

College of Business Administration

Accounting
Business Administration
Economics
• Labor Economics
Finance
• Financial Management
• Financial Planning
• Financial Services
• Risk Management and Insurance
Human Resources
Information Systems Management
Integrated Marketing Communications
International Business
Marketing Management
Sales Management
Supply Chain/Operations Management
Undecided Business

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
- 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
- PK-12 Multi-Age Licensure
 - Drama-Theatre
 - Art Education
 - Music
 - Dance
 - Physical Education
 - Health Education
- Family & Consumer Sciences
- Undecided Education

BACHELOR'S DEGREES (cont'd) MASTER'S DEGREE

College of Engineering

Aerospace Systems Engineering
Biomedical Engineering

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

Chemical Engineering

- Biotechnology Specialization
- Polymer Specialization

Civil Engineering

Computer Engineering

Corrosion Engineering

Electrical Engineering

Mechanical Engineering

- Motion and Control Specialization
- Polymer Specialization

Undecided Engineering

College of Health Professions

Nursing

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

Nutrition and Dietetics

- Coordinated Program
- Didactic Program
- Food and Environmental Nutrition

Respiratory Therapy

Social Work

Speech-Language Pathology and Audiology

Sport Science and Wellness Education

- Athletic Training
- Exercise Science
- Physical Education Pre-K - 12
- Sport Studies

Undecided Health Professions

Buchtel College of Arts and Sciences

Arts Administration

Biology

Chemistry

Communication

Computer Science

English

- Composition
- Creative Writing
- Literacy

Family and Consumer Sciences

- Child and Family Development
- Clothing, Textiles, and Interiors

Geography

- Geographic Information Systems and Urban Planning

Geoscience

- Geology
- Earth Science
- Environmental Geology

History

Mathematics

- Applied Mathematics
- Mathematics

Music

- Accompanying
- Composition
- Education
- Performance Technology
- Theory

Physics

Political Science

- Applied Politics
- Security Studies

Psychology

Public Administration & Urban Studies

- Executive Master of Public Administration

Public Health

Sociology

Spanish

Statistics

College of Polymer Science & Polymer Engineering

Polymer Engineering
Polymer Science

College of Education

Curriculum & Instruction:
(Adolescent to Young Adult)

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

Intervention Specialist Licensure

- Early Childhood
- Mild/Moderate
- Moderate/Intensive

P-12 Multi-Age

- Art Education
- Drama/Theatre Licensure
- Music

Educational Administration

- Higher Education Administration
- Principalship

Educational Foundations

- Assessment and Evaluation
- Instructional Technology

Elementary Education-Literacy Option

Special Education for Practicing Teachers

College of Engineering

Biomedical Engineering
Chemical Engineering
Civil Engineering
Electrical Engineering
Engineering Management
Mechanical Engineering

College of Business Administration

Accounting (M.S.A.)
Business Administration (M.B.A.)

- Business Analytics
- Finance
- Global Technological Innovation
- Healthcare Management
- Interdisciplinary
- International Business
- Management
- Risk Management and Insurance
- Strategic Marketing

Economics

Management (M.S.M.)

- Supply Chain Management
- Information Systems Management
- Technological Innovation

Taxation (MTax)

College of Health Professions

Classroom Guidance for Teachers
Clinical Mental Health Counseling
Clinical Nurse Specialist

- Adult Gerontologist Health
- Child and Adolescent Health

Marriage and 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

Public Health

School Counseling

Social Work

Speech-Language Pathology

ASSOCIATE'S DEGREE

Buchtel College of Arts and Sciences

Criminal Justice Studies

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

College of Applied Science and Technology

Associate of Arts

Associate of Science

Associate of Technical Studies

Business Management Technology

- Accounting
- General Option
- Small Business Management

Computer Information Systems

- CISCO Networking Track
- Microsoft Networking Track
- Programming Option

- Web Development Option

Construction Engineering Technology

Construction Field Operations

Corrosion Engineering Technology

Culinary Arts

Emergency Medical Services

- EMT/Paramedic
- Fire/Medic

Electronic Engineering Technology

Fire Protection Technology

Geographic and Land Information Systems
(GIS/LIS)

Hotel/Lodging Management

Land Surveying

Manufacturing Engineering Technology

Marketing and Sales Technology

- Advertising and Sales
- Retail Fashion

Mechanical Engineering Technology

Undecided CAST

College of Health Professions

Allied Health

- Healthcare Simulation Technology
- Medical Assisting Technology
- Radiologic Technology
- Surgical Technology