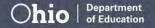


Preparing students for multiple options after high school:

gainful employment and/or postsecondary study.

Data reflects 2014 Ohio labor statistics and public institutions of higher education for 2013-2014. For specific tuition costs, visit ohiohighered.org.



Ohio In-demand Occupations







Secondary Pathway: Animal Science and Management

Postsecondary Program: Livestock Management

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Animal & Plant Science	Ag, Food, & Natural Resources	
Secondary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Livestock Selection, Nutrition, & Mgt	World Languages	
Secol	11	English III	Algebra II	Chemistry	U.S. History	Animal Health	World Languages		
	12	English IV	Trigonometry/ Calculus	Animal Anatomy & Physiology	U.S. Government	Business Management	A&E Capstone		
	Year 1 1st Semester	Technical	Technical Math	Biology	Computer	Introduction to Animal	Livestock Operations		
_		Writing			Applications	Production	Management		
condary	Year 1 2nd Semester	Economics	Humanities Elective	Animal Anatomy & Physiology	Reproductive Management			Agri-Business Co-Op Experience	
Postsecondary		<u> </u>	Humanities	Animal Anatomy &	Reproductive	Production Livestock	Management Livestock Selection &	Co-Op	

High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

 ${\it Visit\ education. ohio. gov/Career Connections\ for\ reference\ information.}$

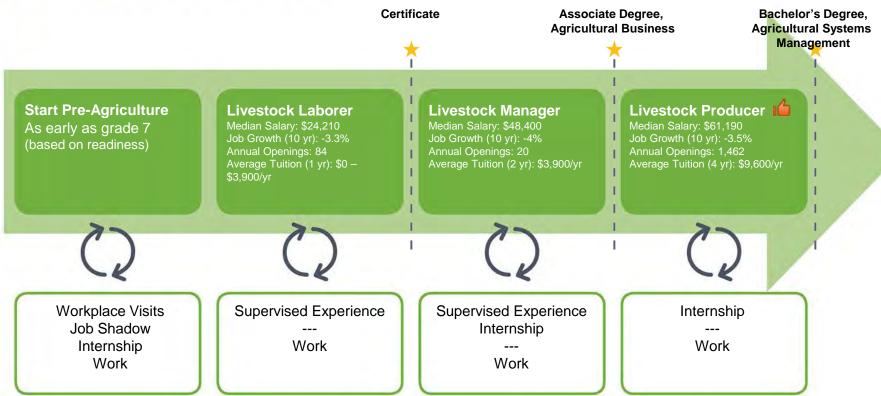
Course titles and sequences will vary between schools.

Ohio | Department of Education





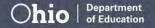




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Ohio In-demand Occupations







Secondary Pathway: Animal Science and Management

Postsecondary Program: Livestock Management

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Animal & Plant Science	Ag, Food, & Natural Resources	
Secondary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Livestock Selection, Nutrition, & Mgt	World Languages	
Secol	11	English III	Algebra II	Chemistry	U.S. History	Animal Health	World Languages		
	12	English IV	Trigonometry/ Calculus	Animal Anatomy & Physiology	U.S. Government	Business Management	A&E Capstone		
	Year 1 1st Semester	Technical	Technical Math	Biology	Computer	Introduction to Animal	Livestock Operations		
_		Writing			Applications	Production	Management		
condary	Year 1 2nd Semester	Economics	Humanities Elective	Animal Anatomy & Physiology	Reproductive Management			Agri-Business Co-Op Experience	
Postsecondary		<u> </u>	Humanities	Animal Anatomy &	Reproductive	Production Livestock	Management Livestock Selection &	Co-Op	

High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

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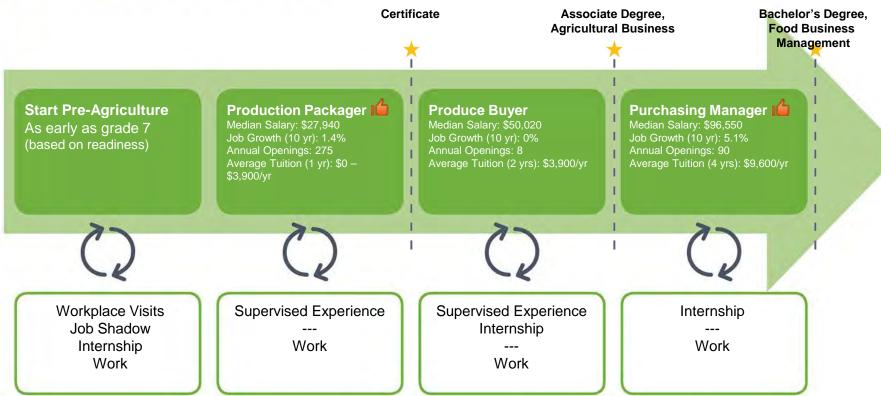
Course titles and sequences will vary between schools.

Ohio | Department of Education







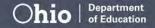


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Ohio In-demand Occupations









Secondary Pathway: <u>Agribusiness and Production Systems</u> Postsecondary Program: <u>Agricultural Business</u>

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Ag, Food, & Natural Resources	Animal & Plant Science	
ndary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Animal & Plant Biotechnology	World Languages	
Secondary	11	English III	Algebra II	Chemistry	U.S. History	Livestock Selection, Nutrition & Mgt	Science & Technology of Food	World Languages	
	12	English IV	Trigonometry/ Calculus	Anatomy & Physiology	U.S. Government	Business Management for A & E	Agronomic Systems	Global Economics & Food Markets	
	Year 1 1st Semester	English Composition	Exploring Business	Personal Selling	U.S. History	College Orientation	Food & Resource Economics		
Postsecondary	Year 1 2nd Semester	Agricultural Communication	College Algebra	Chemistry	Management Records & Analysis	Human Resources Management			
ostse	Year 2 1st Semester	World Literature	Business Calculus	Bioscience	Rural Sociology	Humanities Elective			
C	Year 2 2nd Semester	Marketing	Small Business Management	Business Finance	Microbiology	Agricultural Issues in Society			

High School Career-Technical Education Program Courses

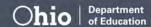
High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

Visit education.ohio.gov/CareerConnections for reference information.

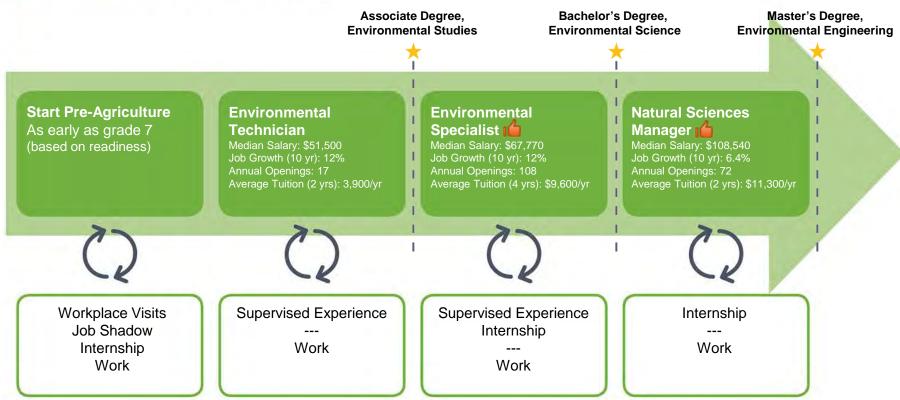
Course titles and sequences will vary between schools.











Preparing students for multiple options after high school:

gainful employment and/or postsecondary study.

| Ohio In-demand Occupations









Secondary Pathway: Natural Resource Management

Postsecondary Program: **Environmental Science**

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Ag, Food, & Natural Resources	Natural Resources	
ndary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Environmental Science	World Languages	
Secondary	11	English III	Algebra II	Chemistry	U.S. History	Environmental Systems Management	Forestry & Woodland Ecosystems	World Languages	
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Park & Recreational Management	Urban Forestry		
>	Year 1 1st Semester	English Composition I	Biology I	College Algebra	Intro to Environmental Science	Environmental Laws & Regulations	Health & Safety for Water Operation		
ndar	Year 1 2nd Semester	Technical Writing	Chemistry I	Physical Geology	Environmental Aspects of	Environmental Site	Pollution Control	Drinking Water Treatment	
Ö		. 3		Coology	Soils	Assessment	00.11.01	rroatmont	
Postsecondary	Year 2 1st Semester	Introduction to Psychology	Hazardous Materials Management	Environmental Hydrology	Soils Environmental Sampling	Assessment Safety & Loss Prevention	OSHA General Industrial Safety & Health	Hodinon	

High School Career-Technical Education Program Courses

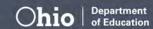
High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

 ${\it Visit\ education.ohio.gov/Career Connections\ for\ reference\ information.}$

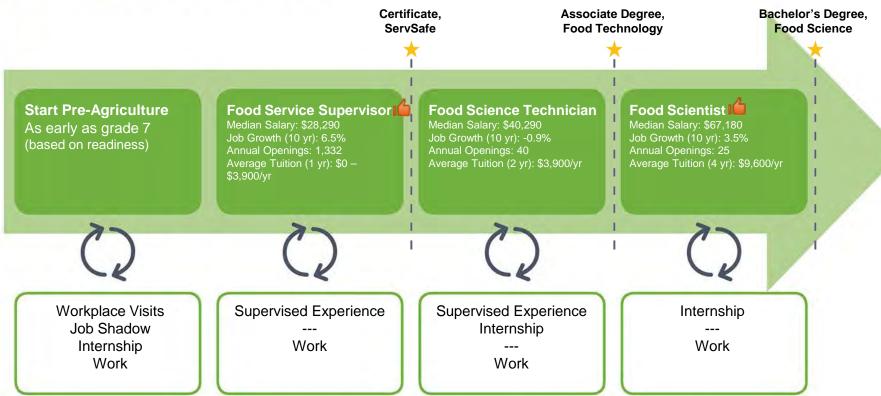
Course titles and sequences will vary between schools.











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Ohio In-demand Occupations









Secondary Pathway: Food Science and Technology

Postsecondary Program: Food Science and Technology

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Science and Technology of Food	Ag, Food, & Natural Resources	
Secondary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Applications of Food Science & Safety	Principles & Practices of Bioscience	World Languages
Secol	11	English III	Algebra II	Chemistry	U.S. History	Meat Science/ Genetics	World Languages		
	12	English IV	Trigonometry/ Calculus	Anatomy & Physiology	U.S. Government	Food Marketing & Research	A&E Capstone	Agriculture Communication & Leadership	
	Year 1								
>	1st Semester	English Composition	Intro to Food Science	Chemistry I	Human Nutrition				
condary		•		Chemistry I		Food Regulations			
Postsecondary	1st Semester Year 1	Composition Public	Science		Nutrition		Seminar		

High School Career-Technical Education Program Courses

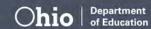
High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

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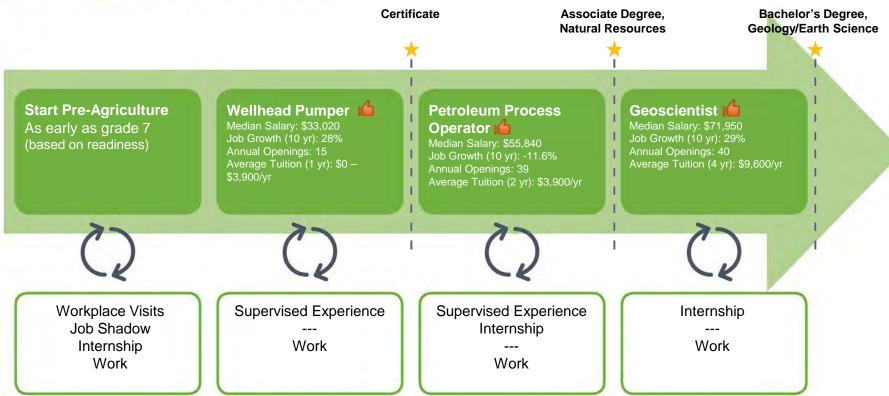
Course titles and sequences will vary between schools.







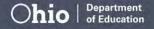




Preparing students for multiple options after high school:

gainful employment and/or postsecondary study.

| Ohio In-demand Occupations









Secondary Pathway: Natural Resource Management

Postsecondary Program: Natural Resources

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Ag, Food, & Natural Resources	Natural Resources	
Secondary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Energy Systems Management	World Languages	
Secol	11	English III	Algebra II	Chemistry	U.S. History	Environmental Science for Agriculture	Environmental Systems Management	World Languages	
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Oil & Gas Operations	A & E Systems Capstone		
_	Year 1 1st Semester	English Composition	Algebra	Environmental Science	College Orientation	Humanities Elective			
ondary		•	Algebra Chemistry I						
Postsecondary	1st Semester Year 1	Composition American	, and the second	Science	Orientation Society & Natural	Elective Communicating Environmental			

High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

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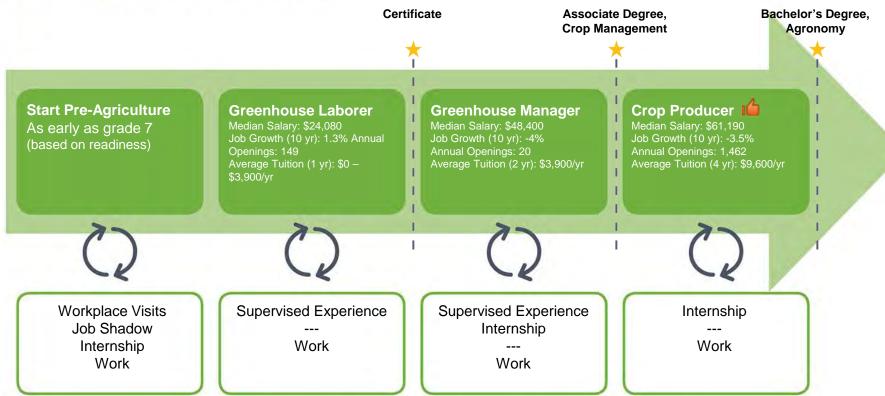
Course titles and sequences will vary between schools.

Ohio | Department of Education









Preparing students for multiple options after high school:

gainful employment and/or postsecondary study.

Marie In-demand Occupations









Secondary Pathway: <u>Horticulture</u> Postsecondary Program: <u>Horticultural Science</u>

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Ag, Food, & Natural Resources	Animal & Plant Science	
Secondary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Greenhouse & Nursery Management	Agronomic Systems	World Languages
Secol	11	English III	Algebra II	Chemistry	U.S. History	Business Management	World Languages		
	12	English IV	Trigonometry/ Calculus	Anatomy & Physiology	U.S. Government	Ag Econ, International/ Commodities	A&E Capstone		
>	Year 1 1st Semester	English I	Soil Science	Agriculture Survey	Animal Agriculture				
Postsecondary	Year 1 2nd Semester	English II	Technical Math	Biology	Soil Fertility	Ag Elective	Agri-Business Co-Op		
ostsec	Year 2 1st Semester	Public Speaking	Sales Management	Business Management	Plant Pests	Crop Production			
a	Year 2 2nd Semester	Agriculture Seminar	Ag Marketing & Trade	Pest Management	Equipment Management	Humanities/ Social Science Elective			

High School Career-Technical Education Program Courses

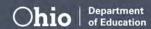
High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

Visit education.ohio.gov/CareerConnections for reference information.

Course titles and sequences will vary between schools.







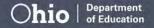




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Ohio In-demand Occupations







Secondary Pathway: Food Science and Technology

Postsecondary Program: Food Science and Technology

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Science and Technology of Food	Ag, Food, & Natural Resources	
Secondary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Applications of Food Science & Safety	World Languages	
Secol	11	English III	Algebra II	Chemistry	U.S. History	Meat Science/ Genetics	Principles & Practices of Bioscience	World Languages	
	12	English IV	Trigonometry/ Calculus	Anatomy & Physiology	U.S. Government	Food Marketing & Research	A&E Capstone	Agriculture Communication & Leadership	
>	Year 1 1st Semester	English Composition	Food Science	Chemistry I	Human Nutrition	Anatomy & Physiology			
ondar	Year 1 2nd Semester	Public Speaking	Food Safety	Chemistry II	Biology I	Food Regulations	Psychology		
Postsecondary	Year 2 1st Semester	Ethics	College Algebra	Advanced Food Science	Microbiology	Sensory Evaluation	Seminar		
a	Year 2 2nd Semester	Product Development	HACCP Safety Training	Food Chemistry	Product Processing	Food Production			

High School Career-Technical Education Program Courses

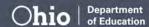
High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

Visit education.ohio.gov/CareerConnections for reference information.

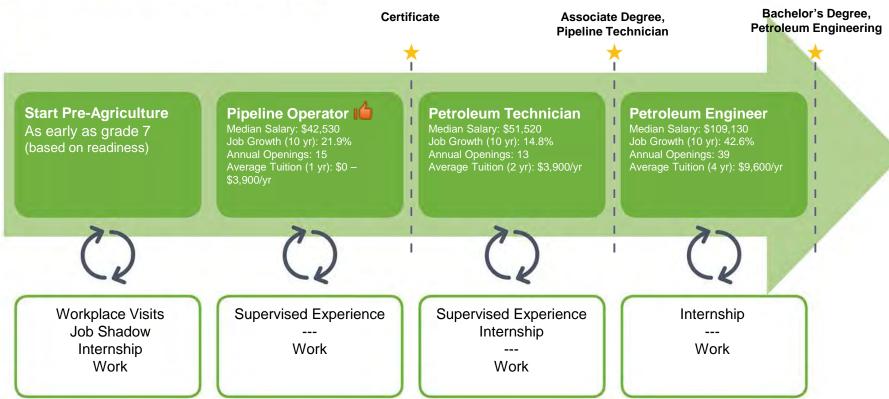
Course titles and sequences will vary between schools.









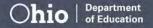


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Ohio In-demand Occupations









Secondary Pathway: Natural Resource Management

Postsecondary Program: Petroleum Technology

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Science	Social Studies	Fine Arts	Ag, Food, & Natural Resources		
ndary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Environmental Science	Natural Resources	World Languages
Secondary	11	English III	Algebra II	Chemistry	U.S. History	Oil & Gas Operations	World Languages		
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Hydraulics & Pneumatics	Electronic & Electrical Systems		
>	Year 1 1st Semester	Interpersonal Communication	Regulations & Compliance	Introduction to Petroleum Industry	Electrical Circuits & Devices	Mechanical Drive Components	Supervisory Control & Data Acquisition		
Postsecondary	Year 1 2nd Semester	Corrosion Basics	Petroleum Instrumentation	Gas Compression & Flow Dynamics	Pipeline Operations	Basic Pumps	Engineering Co-Op		
ostsec	Year 2 1st Semester	Physical Geology	College Algebra	College Composition	Chemistry				
A	Year 2 2nd Semester	Computer Applications	Physics	Arts & Humanities Elective					

High School Career-Technical Education Program Courses

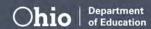
High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

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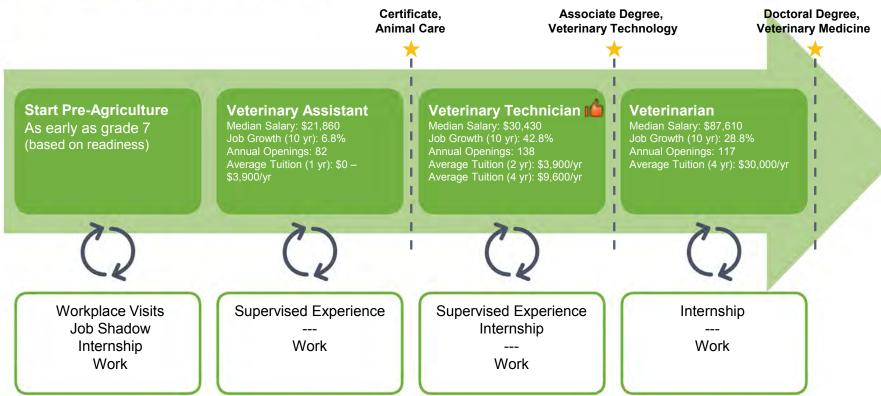
Course titles and sequences will vary between schools.







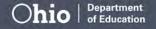




Preparing students for multiple options after high school:

gainful employment and/or postsecondary study.

| Ohio In-demand Occupations









Secondary Pathway: Animal Science and Management

Postsecondary Program: Veterinary Technology

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Animal Science & Technology	Ag, Food, & Natural Resources	
Secondary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Animal Selection, Nutrition, & Mgt	World Languages	
Seco	11	English III	Algebra II	Chemistry	U.S. History	Animal Health	World Languages		
	12	English IV	Trigonometry/ Calculus	Animal Anatomy & Physiology	U.S. Government	Veterinary Science	A&E Capstone		
>	Year 1 1st Semester	College Seminar	Algebra II	Anatomy & Physiology I	Anatomy & Physiology II	Small Animal Medicine	Veterinary Parasitology	Social Science Elective	
Postsecondary	Year 1 2nd Semester	Interpersonal Skills	Clinical Pathology I	Veterinary Anatomy & Physiology	Advanced Medical Terminology	Veterinary Radiography	Veterinary Anesthesia	Veterinary Surgical Techniques	
ostsec	Year 2 1st Semester	English Composition I	Ethics	Biochemistry	Veterinary Nutrition	Animal Medicine	Small Animal Health & Disease	Clinical Applications I	
<u>т</u>	Year 2 2nd Semester	Clinical Pathology II	Veterinary Pharmacology	Large Animal Health & Disease	Veterinary Seminar I & II	Veterinary Practicum I & II	Humanities Elective	Clinical Applications II & III	

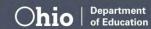
High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

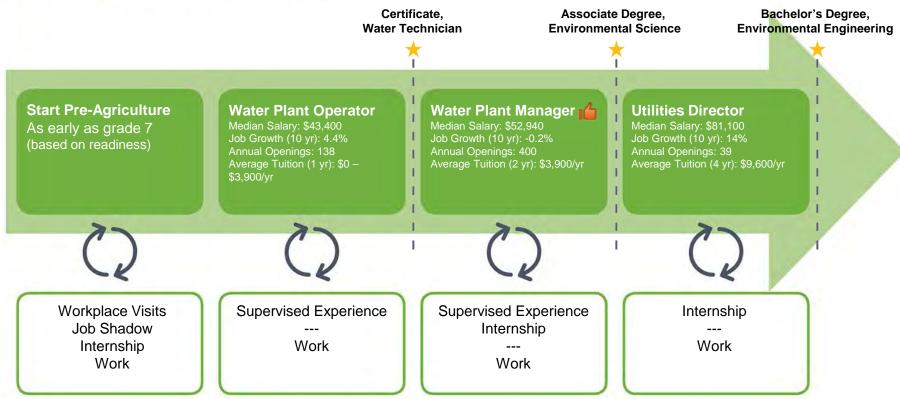
Visit education.ohio.gov/CareerConnections for reference information. Course titles and sequences will vary between schools.











Preparing students for multiple options after high school:

gainful employment and/or postsecondary study.

| Ohio In-demand Occupations









Secondary Pathway: Natural Resource Management

Postsecondary Program: Environmental Science

An Example of Courses with Secondary and Postsecondary Credits

	7' 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Ag, Food, & Natural Resources	Natural Resources	
ıdary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Environmental Science	World Languages	
Secondary	11	English III	Algebra II	Chemistry	U.S. History	Environmental Systems Management	World Languages		
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Bio Energy	Hydraulics & Pneumatics		
	Year 1 1st Semester	English Composition I	Biology I	College Algebra	Public Speaking	Wastewater Treatment			
Postsecondary	Year 1 2nd Semester	English Composition II	Biology II	Environmental Sustainability	Water Resources	Environmental Field Biology			
sec	Year 2 1st Semester	Introduction to Psychology	Chemistry I	Trigonometry	Water Collection	Water Distribution			
ost									

High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

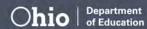
Recommended Electives

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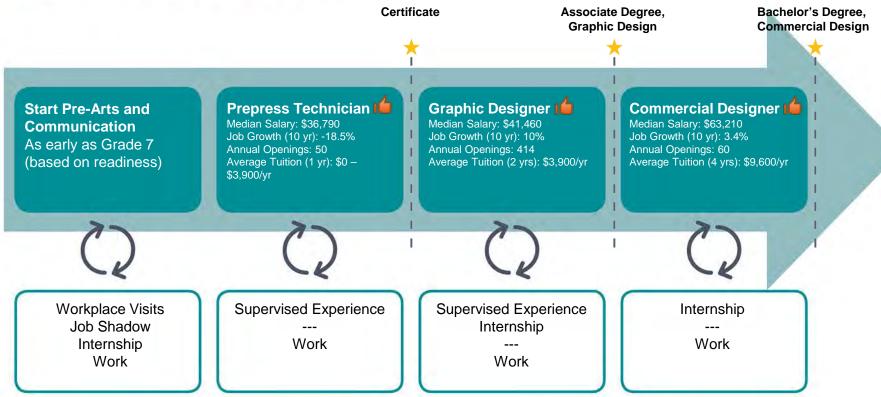
Course titles and sequences will vary between schools.

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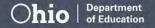




Preparing students for multiple options after high school:

hio In-demand Occupations

gainful employment and/or postsecondary study.









Secondary Pathway: Visual Design and Imaging

Postsecondary Program: **Graphic Design**

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Science	Social Studies	Fine Arts	Arts & Communication Primer		
Secondary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Intro to Visual Design	Business of Arts and Communication	World Languages
Seco	11	English III	Algebra II	Chemistry	U.S. History	Visual Creation	Digital Print Design	World Languages	
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Multi-Media Web Production	Photographic Composition		
>	Year 1 1st Semester	English Composition I	College Algebra	Computer Applications for Mac	Digital Imaging	Drawing I	Vector Graphic Design		
ondar	Year 1 2nd Semester	English Composition II	Multicultural Diversity	Digital Design	Graphic Fundamentals	2D Design	Electronic Page Layout		
Postsecondary	Year 2 1st Semester	Public Speaking	Accounting	Digital Video	Digital Photography	Interactive Media	Web Design		
△	Year 2 2nd Semester	Advanced Graphic Design	History of Western Art	Advanced Graphic Design & History	Technical Communication	Physical Science for Technology	3D Graphics		

High School Career-Technical Education Program Courses

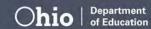
High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

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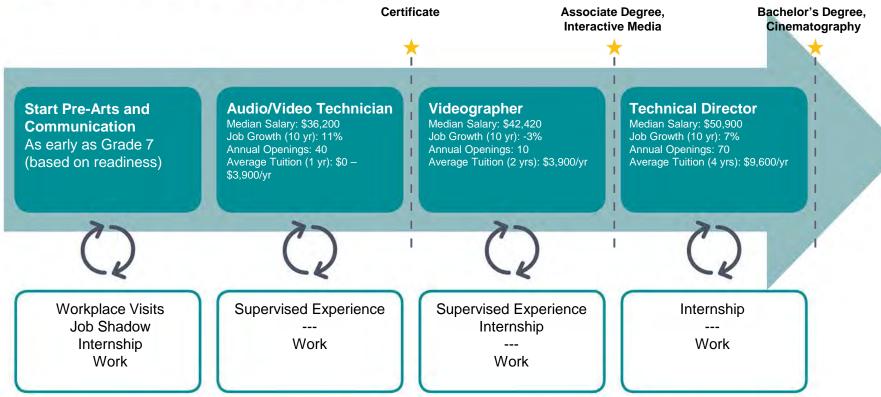
Course titles and sequences will vary between schools.







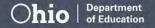




Preparing students for multiple options after high school:

Ohio In-demand Occupations

gainful employment and/or postsecondary study.









Secondary Pathway: Media Arts

Postsecondary Program: Interactive Media

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Arts & Communication Primer		
ndary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Media Arts Introduction	Video Production	World Languages
Secondary	11	English III	Algebra II	Chemistry	U.S. History	Digital Cinema	World Languages		
	12	English IV	Trigonometry/ Calculus	Environmental Science	U.S. Government	Multi-Media Web Production	Arts & Communication Capstone		
>	Year 1 1st Semester	English	Interactive Design Principles	Basics of Video & Sound	Intro to Computer Design	HTML	Biology		
Postsecondary	Year 1 2nd Semester	Storyboarding	Visual Communication	Intro to Humanities	CSS	Branding	Media & Graphics Optimization	Audio Production	
ostsec	Year 2 1st Semester	Statistics	Flash I & II	Sociology	Java-script Fundamentals	Content Management & Integration	Video Production		
—	Year 2 2nd Semester	Web Design	Advanced Flash III	Interactive Portfolio	Interactive Media Practicum	Interactive Media Seminar	DVD Creation		

High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

 ${\it Visit\ education.ohio.gov/Career Connections\ for\ reference\ information.}$

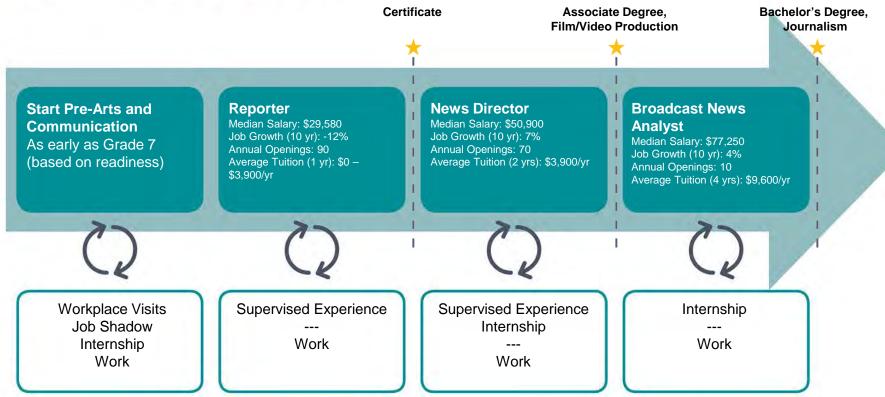
Course titles and sequences will vary between schools.











Preparing students for multiple options after high school:

Ohio In-demand Occupations

gainful employment and/or postsecondary study.









Secondary Pathway: Media Arts

Postsecondary Program: Film/Video Production

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Arts & Communication Primer		
ndary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Introduction to Media Arts	Video Broadcast	World Languages
Secondary	11	English III	Algebra II	Chemistry	U.S. History	Media Arts Writing	World Languages		
	12	English IV	Trigonometry/ Calculus	Environmental Science	U.S. Government	Business of Arts & Communication	Video Production		
>	Year 1 1st Semester	English	Digital Media Concepts	Intro to Audio/Visual Production	Market Research for Multimedia	Multimedia Information Design			
ondar	Year 1 2nd Semester	Public Speaking	Videography	2D Graphics	English Composition	Technical Communication	Math for Technology		
Postsecondary	Year 2 1st Semester	Multimedia Information Design	Digital Video Editing	Applied 2D Graphics	Graphic Imaging Tech. Co-op	Audio Production & Sound Design	Video Editing & Compositing		
<u>а</u> .	Year 2 2nd Semester	Internship	Humanities Elective	Multi Camera Production & Lighting	Motion Graphics- After Effects	Audio/Video Capstone	Social Science Elective	Audio/Visual Elective	

High School Career-Technical Education Program Courses

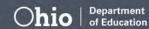
High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

 ${\it Visit\ education. ohio. gov/Career Connections\ for\ reference\ information.}$

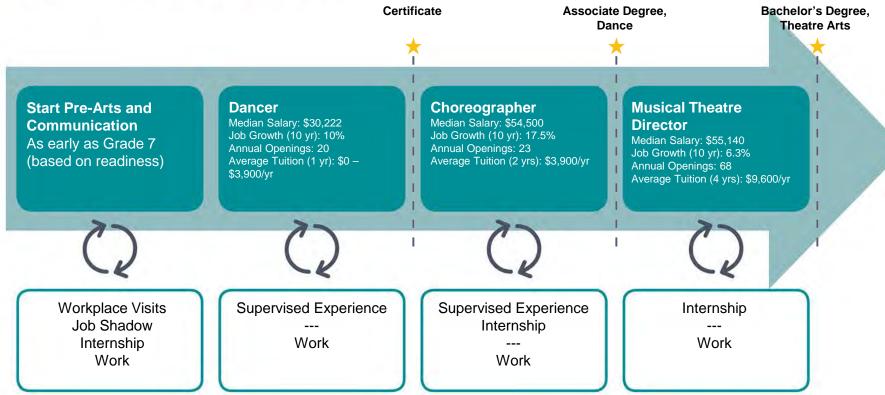
Course titles and sequences will vary between schools.







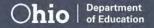




Preparing students for multiple options after high school:

Ohio In-demand Occupations

gainful employment and/or postsecondary study.









Secondary Pathway: Performing Arts

Postsecondary Program: **Dance**

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Arts & Communication Primer		
ndary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Performing Arts Introduction	Dance I	World Languages
Secondary	11	English III	Algebra II	Chemistry	U.S. History	Choreography	Dance II	World Languages	
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Business of Arts & Communication	Dance III		
	Year 1 1st Semester	English Composition	College Algebra	Public Speaking	Introduction to	Theatre I	Fundamentals		
>		Composition	Algebia	Speaking	Dance		of Music		
condary	Year 1 2nd Semester	Sociology	Chemistry	Introduction to Stagecraft	Dance Dance Pedagogy	Script Analysis	Jazz and Hip Hop		
Postsecondary				Introduction to	Dance	Script Analysis Modern Dance	Jazz and Hip		

High School Career-Technical Education Program Courses

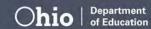
High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

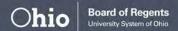
Recommended Electives

 ${\it Visit\ education. ohio. gov/Career Connections\ for\ reference\ information.}$

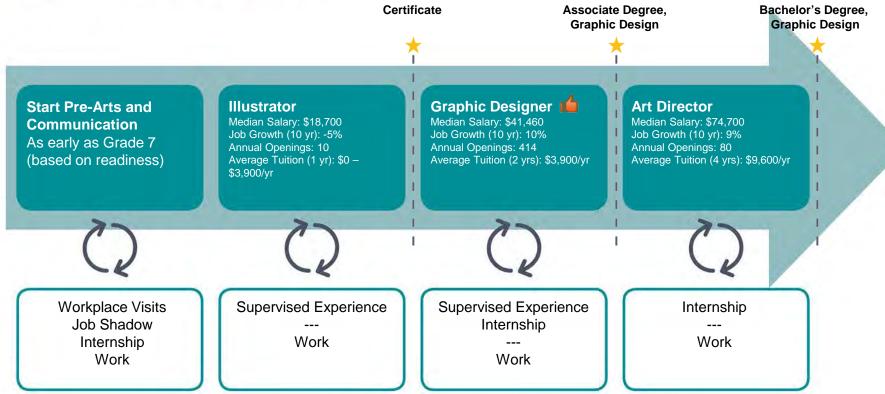
Course titles and sequences will vary between schools.











Preparing students for multiple options after high school:

gainful employment and/or postsecondary study.

Data reflects 2014 Ohio labor statistics and public institutions of higher education for 2013-2014. For specific tuition costs, visit ohiohighered.org.



Ohio In-demand Occupations







Secondary Pathway: Visual Design and Imaging

Postsecondary Program: **Graphic Design**

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Science	Social Studies	Fine Arts	Arts & Communication Primer		
Secondary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Intro to Visual Design	Business of Arts and Communication	World Languages
Seco	11	English III	Algebra II	Chemistry	U.S. History	Visual Creation	Digital Print Design	World Languages	
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Multi-Media Web Production	Photographic Composition		
>	Year 1 1st Semester	English	College Algebra	Computer Applications for Mac	Digital Imaging	Drawing I	Vector Graphic Design		
ondar	Year 1 2nd Semester	English	Multicultural Diversity	Digital Design	Graphic Fundamentals	2D Design	Electronic Page Layout		
Postsecondary	Year 2 1st Semester	Public Speaking	Accounting	Digital Video	Digital Photography	Interactive Media	Web Design		
Δ.	Year 2 2nd Semester	Advanced Graphic Design	History of Western Art	Advanced Graphic Design & History	Technical Communication	Physical Science for Technology	3D Graphics		

High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

 ${\it Visit\ education.ohio.gov/Career Connections\ for\ reference\ information.}$

Course titles and sequences will vary between schools.

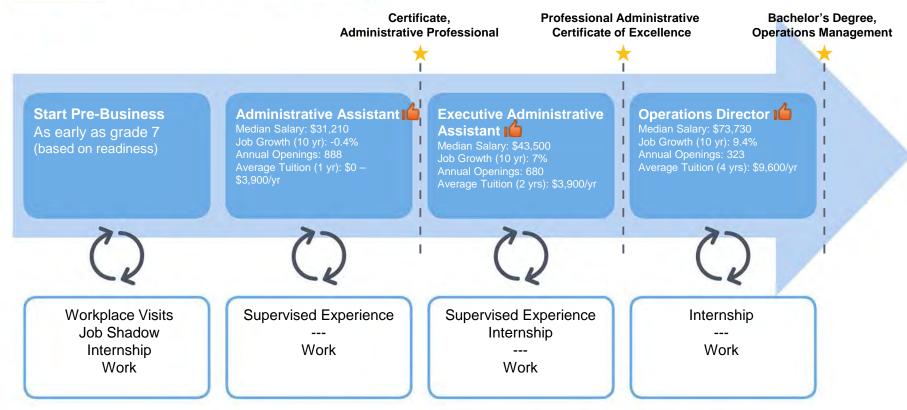
Ohio | Department of Education







Business and Administrative Services Career Pathway



Provided by middle schools, high schools, employers, Ohio Tech Centers, and colleges.

Preparing students for multiple options after high school:

Ohio In-demand Occupations

gainful employment and/or postsecondary study.









Business and Administrative Services Career Pathway

Secondary Pathway: **Business and Administrative Services**

Postsecondary Program: Business Management

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Business Foundations	Fundamentals of Business & Admin.	
ndary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Management Principles	World Languages	
Secondary	11	English III	Algebra II	Chemistry	U.S. History	Office Management	World Languages		
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Financial Accounting	Operations Management		
>	Year 1 1st Semester	English I	Business Math	Document Production	Beginning Spreadsheet	Office Procedures	Information Technology Basics		
Postsecondary	Year 1 2nd Semester	English II	Accounting Concepts	Document Production II	Intermediate Spreadsheet	Beginning Database	Presentation Graphics	Contemporary American Business	Social Science Elective
ostsec	Year 2 1st Semester	Business Communication	Public Speaking	Employability Skills	Organizational Behavior	Intermediate Database	Principles of Management	Web Design	
	Year 2 2nd Semester	Interpersonal Communication	Human Resource Management	Office Simulation	HR Co-Op Experience	Business Management Elective			

High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

 ${\it Visit\ education. ohio. gov/Career Connections\ for\ reference\ information.}$

Course titles and sequences will vary between schools.

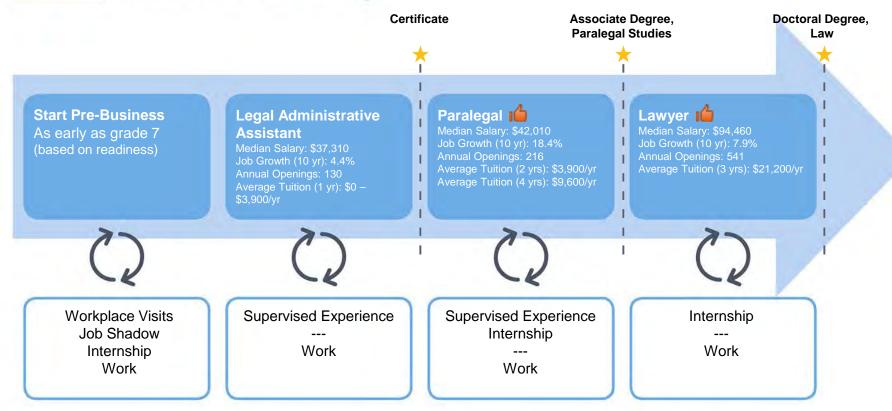








Business and Administrative Services Career Pathway

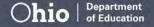


Provided by middle schools, high schools, employers, Ohio Tech Centers, and colleges.

Preparing students for multiple options after high school:

Ohio In-demand Occupations

gainful employment and/or postsecondary study.









Secondary Pathway: **Business and Administrative Services**

Postsecondary Program: Paralegal Studies

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Business Foundations	Fundamentals of Business & Admin.	
Secondary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Management Principles	World Languages	
Secol	11	English III	Algebra II	Chemistry	U.S. History	Office Management	Financial Accounting	World Languages	
	12	English IV	Trigonometry/ Calculus	Environmental Science	U.S. Government	Legal Office Management	Business Capstone		
	Year 1 1st Semester	English	Algebra	College	Intro to Paralegal	Law Office Technology			
>				Seminar	Studies/Ethics	recritiology			
condary	Year 1 2nd Semester	English	Computer Applications	Legal Research & Writing	•	Intro to Environmental Science	Intro to Sociology	Administrative Law	Business Organizations
Postsecondary		English Communication	the state of the s	Legal Research &	Studies/Ethics Torts &	Intro to Environmental			

High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

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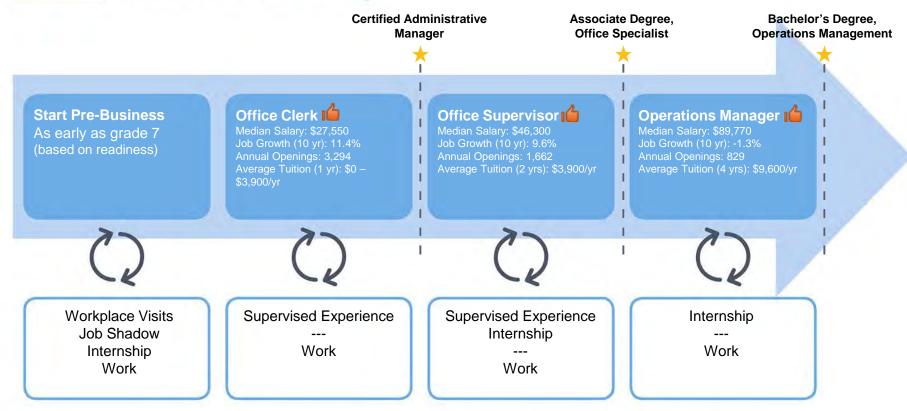
Course titles and sequences will vary between schools.









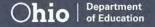


Provided by middle schools, high schools, employers, Ohio Tech Centers, and colleges.

Preparing students for multiple options after high school:

Maria Companies of the Companies of the

gainful employment and/or postsecondary study.









Secondary Pathway: **Business and Administrative Services**

Postsecondary Program: Business Management

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Business Foundations	Fundamentals of Business & Admin.	
ndary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Management Principles	World Languages	
Secondary	11	English III	Algebra II	Chemistry	U.S. History	Office Management	Financial Accounting	World Languages	
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Operations Management	Business Capstone		
>	Year 1 1st Semester	English I	Business Math	Intro to Financial Accounting	Foundations of Business	Micro- economics	Management Elective		
Postsecondary	Year 1 2nd Semester	English II	Computer Applications	Managerial Accounting	Marketing Principles	Arts & Humanities Elective			
ostsec	Year 2 1st Semester	Public Speaking	Statistics	International Business	Organizational Behavior	Business Law	Intro to Supervision		
C	Year 2 2nd Semester	Business Capstone or Internship	Management Information Systems	Macro- economics	Business Communication	Natural Sciences Elective			

High School Career-Technical Education Program Courses

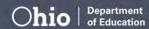
High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

Visit education.ohio.gov/CareerConnections for reference information.

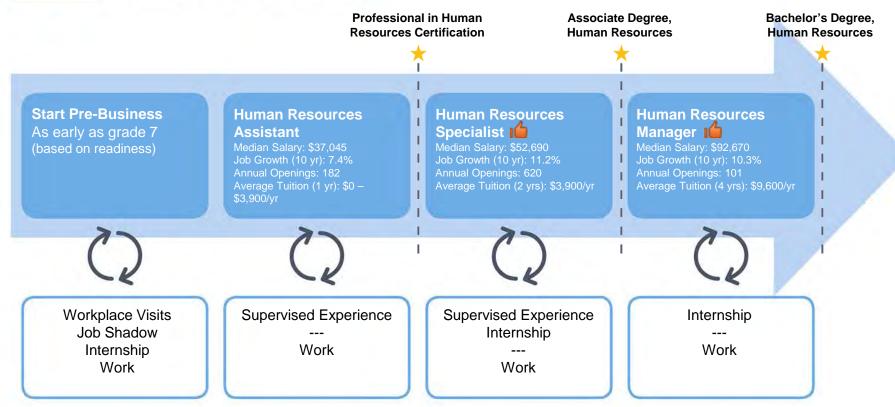
Course titles and sequences will vary between schools.











Provided by middle schools, high schools, employers, Ohio Tech Centers, and colleges.

Preparing students for multiple options after high school:

Ohio In-demand Occupations

gainful employment and/or postsecondary study.









Secondary Pathway: **Business and Administrative Services**

Postsecondary Program: <u>Human Resources</u>

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Business Foundations	Fundamentals of Business & Admin.	
Secondary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Management Principles	World Languages	
Secol	11	English III	Algebra II	Chemistry	U.S. History	Operations Management	World Languages		
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Human Resources Management	Business Capstone		
>	Year 1 1st Semester	English	Business Language	Business Applications	Human Resources Management	Computer Applications	Management		
Postsecondary	Year 1 2nd Semester	Statistics	Personnel Interviewing	Employee Training	Labor Relations	HR Policy & Procedure Writing	Legal Environment of Business	Benefits & Compensation	
ostsec	Year 2 1st Semester	Intercultural Communication	Micro- economics	HR Records Management	Workplace Safety	Staffing and the Law	Payroll		
Δ.	Year 2 2nd Semester	American Government	Administration of Human Resources	Voluntary Benefits	HRM Practicum	Natural Sciences Elective			

High School Career-Technical Education Program Courses

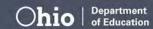
High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

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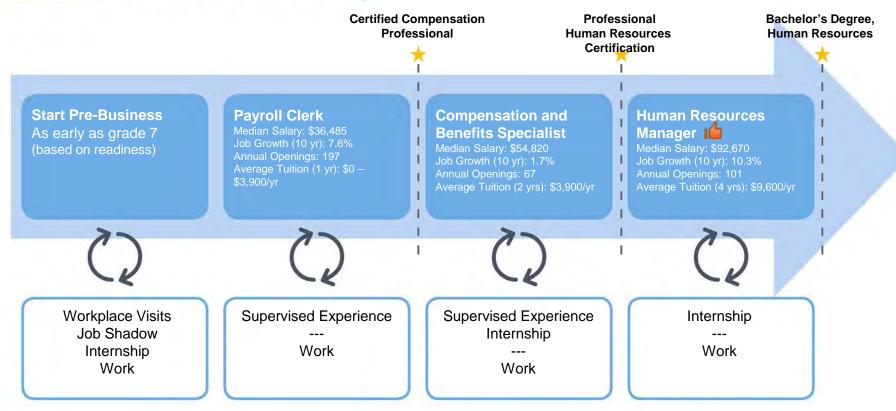
Course titles and sequences will vary between schools.









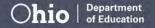


Provided by middle schools, high schools, employers, Ohio Tech Centers, and colleges.

Preparing students for multiple options after high school:

Ohio In-demand Occupations

gainful employment and/or postsecondary study.









Secondary Pathway: **Business and Administrative Services**

Postsecondary Program: **Human Resources**

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Business Foundations	Fundamentals of Business & Admin.	
ndary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Management Principles	World Languages	
Secondary	11	English III	Algebra II	Chemistry	U.S. History	Managerial Accounting	Operations Management	World Languages	
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Human Resources Management	Business Capstone		
>	Year 1 1st Semester	English	Business Language	Business Applications	Human Resources Management	Computer Applications	Management		
Postsecondary	Year 1 2nd Semester	Statistics	Personnel Interviewing	Employee Training	Labor Relations	HR Policy & Procedure Writing	Legal Environment of Business	Benefits & Compensation	
ostsec	Year 2 1st Semester	Intercultural Communication	Micro- economics	HR Records Management	Workplace Safety	Staffing & the Law	Payroll		
_	Year 2 2nd Semester	American Government	Administration of Human Resources	Voluntary Benefits	HRM Practicum	Natural Sciences Elective			

High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

 ${\it Visit\ education. ohio. gov/Career Connections\ for\ reference\ information.}$

Course titles and sequences will vary between schools.



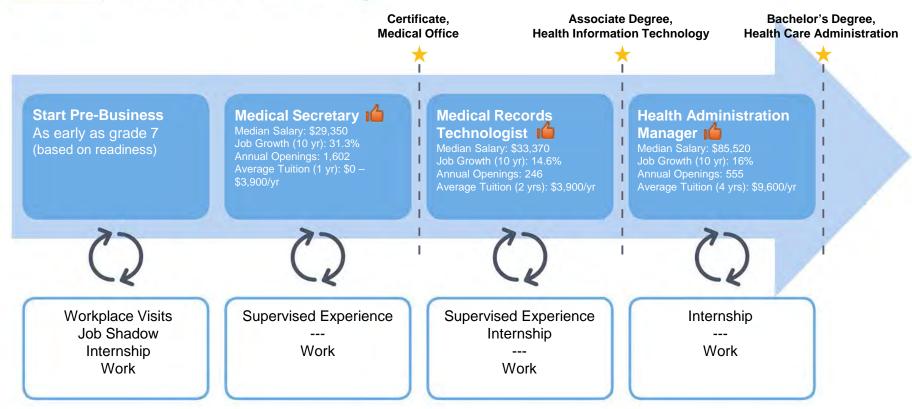






Ohio In-demand Occupations

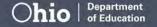
Business and Administrative Services Career Pathway



Provided by middle schools, high schools, employers, Ohio Tech Centers, and colleges.

Preparing students for multiple options after high school:

gainful employment and/or postsecondary study.









Secondary Pathway: <u>Business and Administrative Services</u> Postsecondary Program: <u>Medical Management</u>

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Business Foundations	Fundamentals of Business & Admin.	
Secondary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Management Principles	Medical Terminology	World Languages
Secol	11	English III	Algebra II	Chemistry	U.S. History	Office Management	Business Informatics	World Languages	
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Medical Office Management	Business Capstone		
>	Year 1 1st Semester	English	College Seminar	Office Procedures I	Word I	Excel I	PowerPoint I	Keyboarding & Document Formatting	
Postsecondary	Year 1 2nd Semester	Business Language	Introduction to Health Care	Office Procedures II	Word II	Advanced Document Formatting	PowerPoint II	Medical Terminology	Access I
ostsec	Year 2 1st Semester	Business Math	Bookkeeping I	Advanced Medical Terminology	Excel II	Health Data Management	Office Integration		
<u>r</u>	Year 2 2nd Semester	Business Capstone	Medical Reimburse- ment	Computer Transcription	Business Practicum	Natural Sciences Elective	Technical Elective		

High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

Visit education.ohio.gov/CareerConnections for reference information. Course titles and sequences will vary between schools.



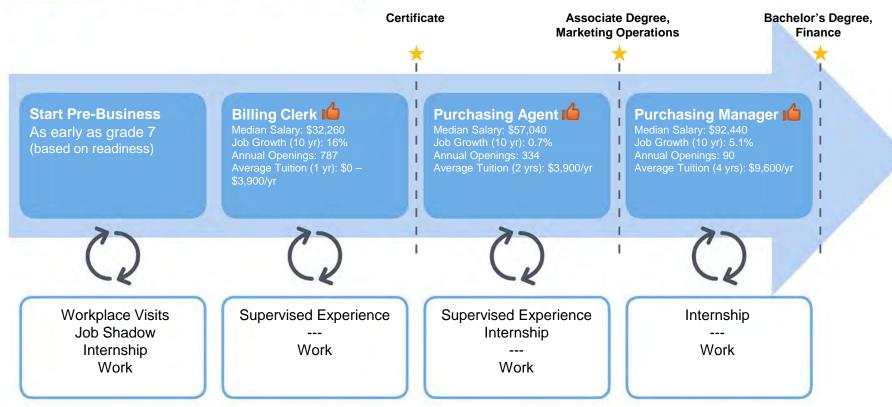






Ohio In-demand Occupations

Business and Administrative Services Career Pathway



Provided by middle schools, high schools, employers, Ohio Tech Centers, and colleges.

Preparing students for multiple options after high school:

gainful employment and/or postsecondary study.









Secondary Pathway: **Business and Administrative Services**

Postsecondary Program: Marketing Operations

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Business Foundations	Fundamentals of Business & Admin. Svcs.	
ndary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Financial Accounting	Supply Chain Management	World Languages
Secondary	11	English III	Algebra II	Chemistry	U.S. History	Managerial Accounting	World Languages		
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Logistics Management	Business Capstone		
>	Year 1 1st Semester	English	College Seminar	Financial Accounting	Software Applications	Personal Finance	Business Language		
Postsecondary	Year 1 2nd Semester	Business Applications	Investments	Statistics	Managerial Accounting	Management	Micro- economics	Natural/ Physical Science	
stsec	Year 2 1st Semester	Macro- economics	Legal Environment of Business	Money & Banking	International Finance	Finance Elective	Arts & Humanities Elective		
ö			2 40111000						

High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

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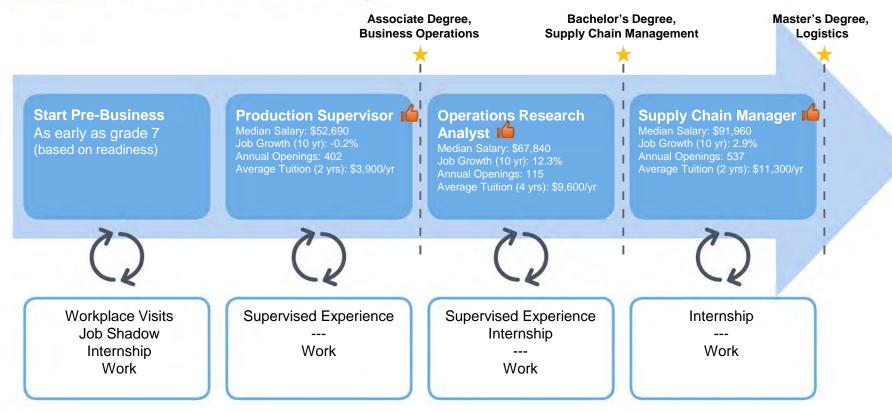
Course titles and sequences will vary between schools.









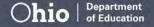


Provided by middle schools, high schools, employers, Ohio Tech Centers, and colleges.

Preparing students for multiple options after high school:

Ohio In-demand Occupations

gainful employment and/or postsecondary study.









Secondary Pathway: **Business and Administrative Services**

Postsecondary Program: Supply Chain Management

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Business Foundations	Fundamentals of Business and Admin.	
ndary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Management Principles	World Languages	
Secondary	11	English III	Algebra II	Chemistry	U.S. History	Supply Chain Management	Operations Management	World Languages	
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Foreign Language	Logistics Management	Business Capstone	
	Year 1 1st Semester	English	College Seminar	Financial Accounting	Supply Chain Management Principles	Micro- economics			
Postsecondary	Year 1 2nd Semester	Statistics	Transportation & Traffic Management	Strategic Procurement	IT in Logistics	Customer Service & Sales	Marketing Principles	International Management	
ostsec	Year 2 1st Semester	Managerial Accounting	Warehouse Management	Inventory Management	International Business	Import/ Export Regulations & Compliance	Humanities Elective		
а.	Year 2 2nd Semester	Performance Management	Project Management	SCM Seminar	SCM Practicum	Natural Science Elective			

High School Career-Technical Education Program Courses

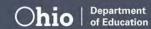
High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

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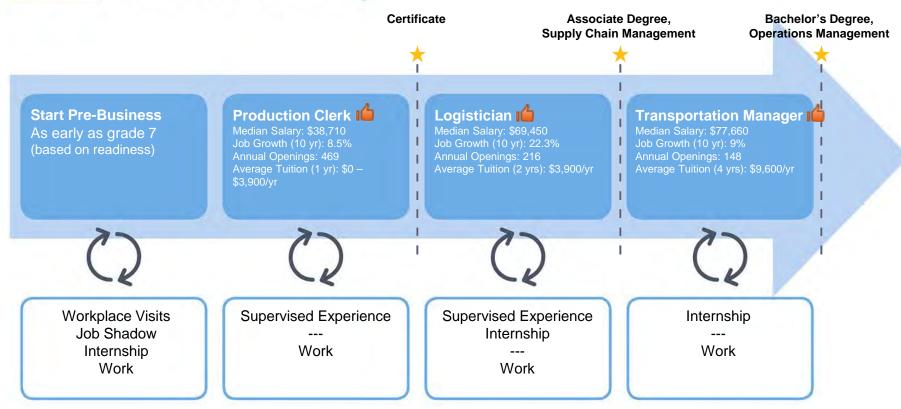
Course titles and sequences will vary between schools.









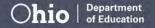


Provided by middle schools, high schools, employers, Ohio Tech Centers, and colleges.

Preparing students for multiple options after high school:

Ohio In-demand Occupations

gainful employment and/or postsecondary study.









Secondary Pathway: **Business and Administrative Services**

Postsecondary Program: Supply Chain Management

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Business Foundations	Fundamentals of Business and Admin.	
Secondary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Management Principles	World Languages	
Secol	11	English III	Algebra II	Chemistry	U.S. History	Supply Chain Management	Operations Management	World Languages	
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Logistics Management	Business Capstone		
_	Year 1 1st Semester	English	College Seminar	Financial Accounting	Supply Chain Management Principles	Micro- economics			
Postsecondary	Year 1 2nd Semester	Statistics	Transportation & Traffic Management	Strategic Procurement	IT in Logistics	Customer Service & Sales	Marketing Principles	International Management	
ostsec	Year 2 1st Semester	Managerial Accounting	Warehouse Management	Inventory Management	International Business	Import/ Export Regulations & Compliance	Humanities Elective		
4	Year 2	Performance	Project	SCM Seminar	SCM Practicum	Natural Science			

High School Career-Technical Education Program Courses

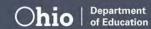
High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

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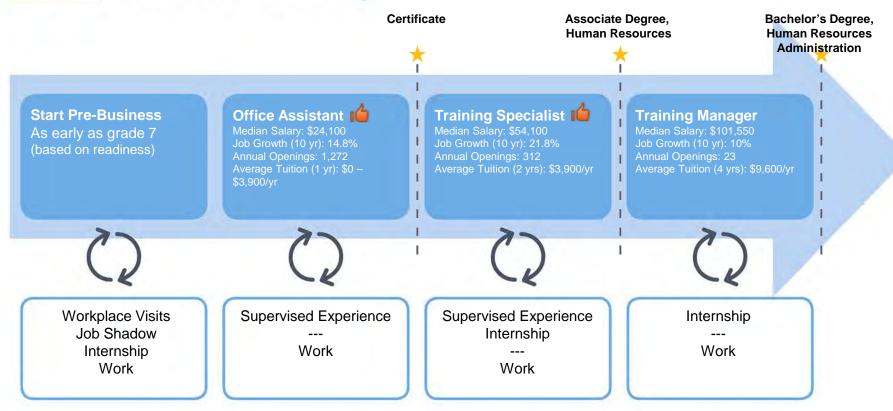
Course titles and sequences will vary between schools.











Provided by middle schools, high schools, employers, Ohio Tech Centers, and colleges.

Preparing students for multiple options after high school:

hio In-demand Occupations

gainful employment and/or postsecondary study.









Secondary Pathway: **Business and Administrative Services**

Postsecondary Program: **Human Resources**

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Business Foundations	Fundamentals of Business & Admin.	
ndary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Management Principles	World Languages	
Secondary	11	English III	Algebra II	Chemistry	U.S. History	Managerial Accounting	Operations Management	World Languages	
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Human Resources Management	Business Capstone		
_	Year 1 1st Semester	English	Business Language	Business Applications	Human Resources Management	Computer Applications	Management		
Postsecondary	Year 1 2nd Semester	Statistics	Personnel Interviewing	Employee Training	Labor Relations	HR Policy & Procedure Writing	Legal Environment of Business	Benefits & Compensation	
ostsec	Year 2 1st Semester	Intercultural Communication	Micro- economics	HR Records Management	Workplace Safety	Staffing & the Law	Payroll		
4	Year 2 2nd Semester	American Government	Administration of Human Resources	Voluntary Benefits	HRM Practicum	Natural Sciences Elective			

High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

 ${\it Visit\ education.ohio.gov/Career Connections\ for\ reference\ information.}$

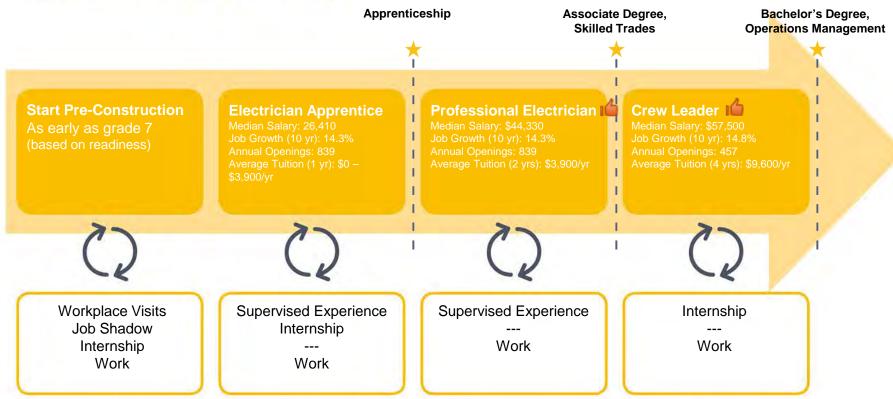
Course titles and sequences will vary between schools.







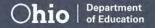




Preparing students for multiple options after high school:

gainful employment and/or postsecondary study.

Maria Propertions Occupations









Secondary Pathway: Mechanical, Electrical and Plumbing

Postsecondary Program: Electrical Trades

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Core & Sustainable Construction		
Secondary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Mechanical, Electrical, & Plumbing Sys.	Construction Electrical Systems	World Languages
Secol	11	English III	Algebra II	Chemistry	U.S. History	Commercial & Industrial Systems	World Languages		
	12	English IV	Trigonometry/ Calculus	Environmental Science	U.S. Government	Alternative Power Generation	Construction Safety & Leadership		
>	Year 1 1st Semester	English Composition I	College Algebra	Industrial Computing	CAD	Industrial Electricity I			
Postsecondary	Year 1 2nd Semester	English Composition II	Trigonometry	Industrial Wiring	Hydraulics I	Industrial Electricity II	Environmental Science		
ostsec	Year 2 1st Semester	Interpersonal Communication	HVAC I	Industrial Electronics	Motors & Controls	Programmable Controller I			
_	Year 2 2nd Semester	Psychology	Electrical Prints & Trouble- shooting	Instrumentation & Controls	Industrial Fluid Power II	Robotics	Hydraulics II		

High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

 ${\it Visit\ education. ohio. gov/Career Connections\ for\ reference\ information.}$

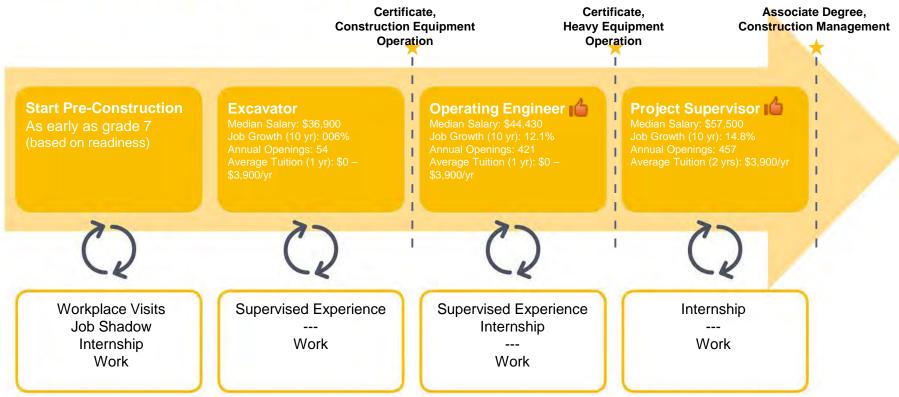
Course titles and sequences will vary between schools.

Ohio | Department of Education





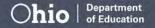




Preparing students for multiple options after high school:

gainful employment and/or postsecondary study.

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Ohio In-demand Occupations







Secondary Pathway: Structural Systems

Postsecondary Program: Construction Management

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Core & Sustainable Construction		
ndary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Plan Reading	World Languages	
Secondary	11	English III	Algebra II	Chemistry	U.S. History	Construction Safety & Leadership	Construction Management	World Languages	
	12	English IV	Trigonometry/ Calculus	Environmental Science	U.S. Government	Heavy Equipment Operations	Construction Site Preparation		
	Year 1	English	College	Construction	Construction	Construction Material	Construction		
>	1st Semester	Liigiisii	Seminar	Documents	Methods	Science	Drawings		
condary	Year 1 2nd Semester	Business	Seminar Basic CAD	Documents Quantity Survey	Methods OSHA 30-hour Safety & Health		Drawings Safety & Loss Prevention	Environmental Science	
Postsecondary	Year 1			Quantity	OSHA 30-hour	Science Basic Mechanical	Safety & Loss		

High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

 ${\it Visit\ education. ohio. gov/Career Connections\ for\ reference\ information.}$

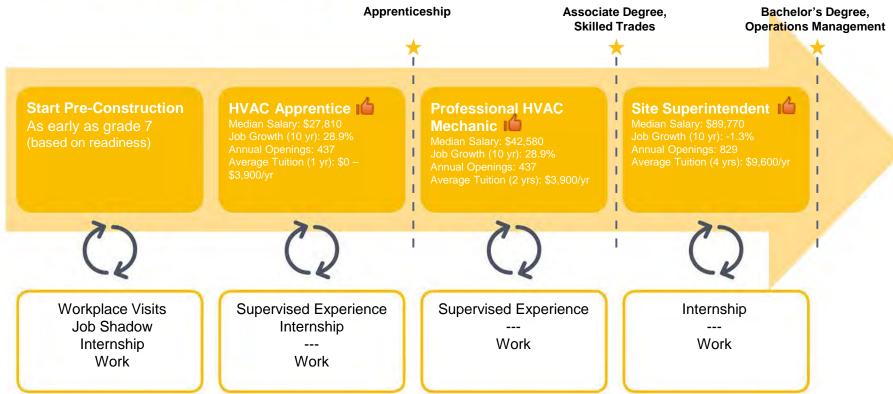
Course titles and sequences will vary between schools.







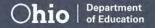




Preparing students for multiple options after high school:

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Ohio In-demand Occupations







Secondary Pathway: Mechanical, Electrical and Plumbing

Postsecondary Program: HVAC

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Core & Sustainable Construction		
Secondary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Mechanical, Electrical, & Plumbing Sys.	Heating & Cooling Systems	World Languages
Secol	11	English III	Algebra II	Chemistry	U.S. History	HVAC Refrigeration	World Languages		
	12	English IV	Trigonometry/ Calculus	Environmental Science	U.S. Government	Sheet Metal	Construction Safety & Leadership		
>	Year 1 1st Semester	English	Technical Math	College Seminar	Electricity	Basic Refrigeration	Intro to Computers		
Postsecondary	Year 1 2nd Semester	Interpersonal Communication	Heating Systems I	Installation Fundamentals	Refrigeration Control Systems	Refrigeration Handling	Social Science Elective		
	Year 2		Heating	045	Duct Layout &	Basic	Environmental		
ostse	1st Semester	Business Law	Systems II	CAD	Prints	Refrigeration II	Science		

High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

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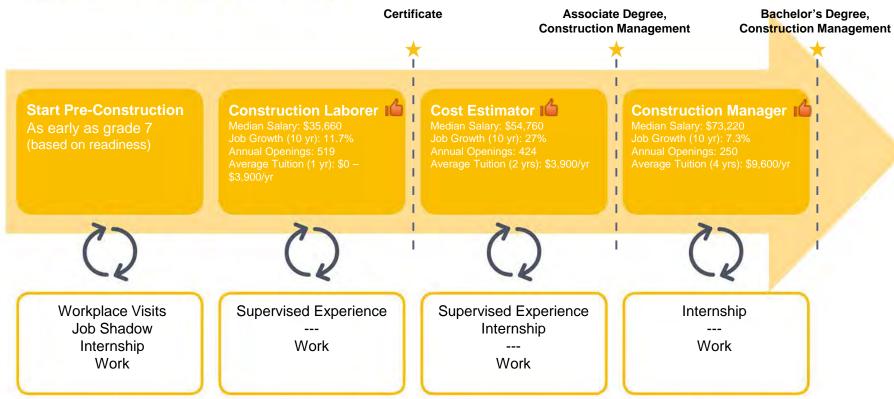
Course titles and sequences will vary between schools.







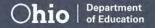




Preparing students for multiple options after high school:

gainful employment and/or postsecondary study.

Ohio In-demand Occupations









Secondary Pathway: Construction Design and Management

Postsecondary Program: Construction Management

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Core & Sustainable Construction		
Secondary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Plan Reading	World Languages	
Secol	11	English III	Algebra II	Chemistry	U.S. History	Architecture Design I	Construction Management	World Languages	
	12	English IV	Trigonometry/ Calculus	Environmental Science	U.S. Government	Architecture Design II	Construction Safety & Leadership		
>	Year 1 1st Semester	English	College Seminar	Construction Documents	Construction Methods	Construction Material Science	Construction Drawings		
Postsecondary	Year 1 2nd Semester	Business	Basic CAD	Quantity Survey	OSHA 30-hour Safety & Health	Basic Mechanical Drafting	Safety & Loss Prevention	Environmental Science	
stsec	Year 2 1st Semester	Intermediate Algebra	Cost Control	Intro to Surveying	Estimating	Residential Computer Estimating	Company Management		

High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

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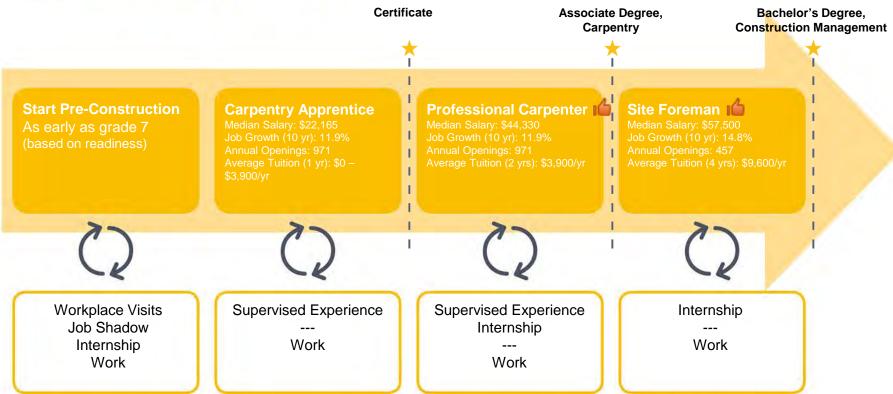
Course titles and sequences will vary between schools.











Preparing students for multiple options after high school:

gainful employment and/or postsecondary study.









Secondary Pathway: Construction Design and Management

Postsecondary Program: Construction Management

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Core & Sustainable Construction		
Secondary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Plan Reading	World Languages	
Secol	11	English III	Algebra II	Chemistry	U.S. History	Architecture Design I	Construction Management	World Languages	
	12	English IV	Trigonometry/ Calculus	Environmental Science	U.S. Government	Architecture Design II	Construction Safety & Leadership		
	Year 1	English	College	Construction	Construction	Construction Material	Construction		
>	1st Semester	Liigiisii	Seminar	Documents	Methods	Science	Drawings		
ondary	1st Semester Year 1 2nd Semester	Business	Seminar Basic CAD	Documents Quantity Survey	Methods OSHA 30-hour Safety & Health		Drawings Safety & Loss Prevention	Environmental Science	
Postsecondary	Year 1			Quantity	OSHA 30-hour	Science Basic Mechanical	Safety & Loss		

High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

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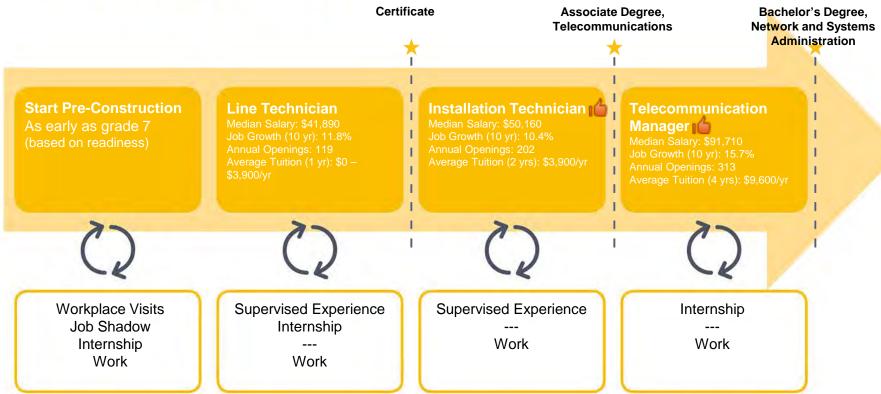
Course titles and sequences will vary between schools.







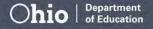




Preparing students for multiple options after high school:

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Ohio In-demand Occupations







Secondary Pathway: Mechanical, Electrical and Plumbing

Postsecondary Program: Telecommunications

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Core & Sustainable Construction		
Secondary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Mechanical, Electrical, & Plumbing Sys.	World Languages	
Secol	11	English III	Algebra II	Chemistry	U.S. History	Tele- communication / Low Voltage	Construction Electrical Systems	World Languages	
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Alternative Power Generation	Powerline / High-Voltage Power		
>	Year 1 1st Semester	English Composition I	College Algebra	Circuit Analysis	Digital Systems	Networking Systems I			
ondary			•	Circuit Analysis I Circuit Analysis II	Digital Systems I Tele- communication	_	Electronic Circuits		
Postsecondary	1st Semester Year 1	Composition I	Algebra	Circuit Analysis	Tele-	Systems I Networking			

High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

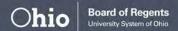
Recommended Electives

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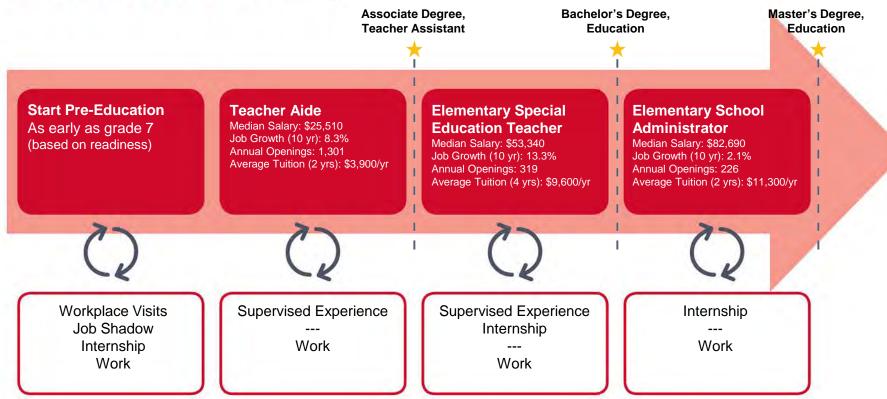
Course titles and sequences will vary between schools.







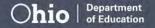




Preparing students for multiple options after high school:

gainful employment and/or postsecondary study.

Ohio In-demand Occupations









Secondary Pathway: <u>Teaching Professions</u> Postse

Postsecondary Program: <u>Teacher Assistant</u>

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Introduction to Education & Training		
ndary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	World Languages		
Secondary	11	English III	Algebra II	Chemistry	U.S. History	Teaching Professions I	World Languages		
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Teaching Professions II			
>	Year 1 1st Semester	English Composition I	Intro to Education	Observing, Recording, Assessment	Childhood Guidance	Intro to Psychology	Early Education Seminar	Early Education Practicum	
Postsecondary	Year 1 2nd Semester	English Composition II	Biology	Child Development & Curriculum	Creative Curriculum	Language & Literacy Experiences	Human Development	Elementary Curriculum	Cognitive Curriculum
ostsec	Year 2 1st Semester	Business Math	Educational Psychology	Children with Exceptionalities	Families, Communities, & Schools	Practicum I	Seminar I		
4	Year 2 2nd Semester	History	Educational Technology	Health, Safety, & Nutrition	Administration & Staff Dynamics	Education Capstone	Practicum II	Seminar II	

High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

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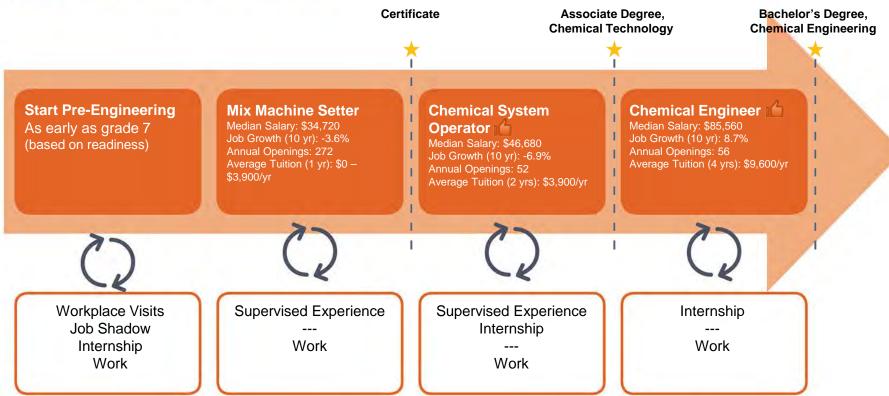
Course titles and sequences will vary between schools.







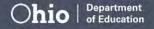




Preparing students for multiple options after high school:

gainful employment and/or postsecondary study.

Marie In-demand Occupations









Secondary Pathway: Engineering and Design

Postsecondary Program: Chemical Technology

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Pre- Engineering Technologies		
ıdary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Manufacturing Operations	World Languages	
Secondary	11	English III	Algebra II	Chemistry	U.S. History	Computer Integrated Manufacturing	Engineering Principles	World Languages	
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Manufacturing Capstone			
>	Year 1 1st Semester	English Composition I	Calculus I	General Chemistry I	Chemistry Lab	Intro to Science Professions			
Postsecondary	Year 1 2nd Semester	Humanities Elective	Calculus II	General Chemistry II	Chemistry Lab				
ostsec	Year 2 1st Semester	History Elective	Physics I	Organic Chemistry I	Organic Chem Lab I				
4	Year 2 2nd Semester	English Composition II	Physics II	Organic Chemistry II	Organic Chem Lab II	Social Science Elective			

High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

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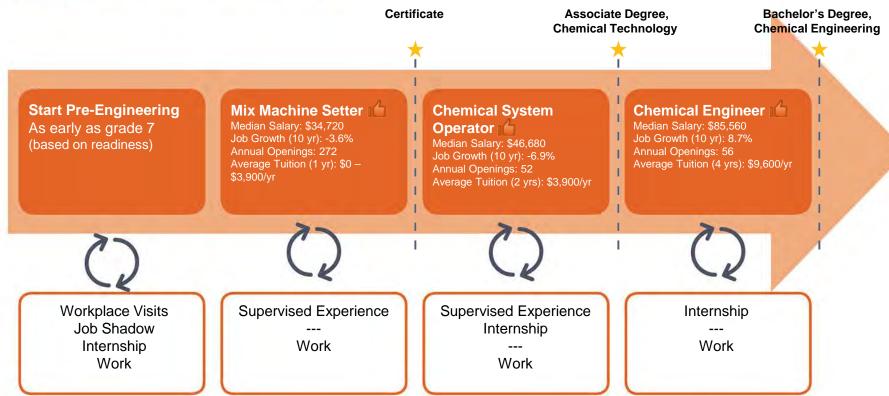
Course titles and sequences will vary between schools.









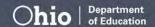


Preparing students for multiple options after high school:

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Ohio In-demand Occupations









Secondary Pathway: Engineering and Design

Postsecondary Program: Chemical Technology

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Pre- Engineering Technologies		
ıdary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Manufacturing Operations	World Languages	
Secondary	11	English III	Algebra II	Chemistry	U.S. History	Computer Integrated Manufacturing	Engineering Principles	World Languages	
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Manufacturing Capstone			
>	Year 1 1st Semester	English Composition I	Calculus I	General Chemistry I	Chemistry Lab	Intro to Science Professions			
Postsecondary	Year 1 2nd Semester	Humanities Elective	Calculus II	General Chemistry II	Chemistry Lab				
ostsec	Year 2 1st Semester	History Elective	Physics I	Organic Chemistry I	Organic Chem Lab I				
4	Year 2 2nd Semester	English Composition II	Physics II	Organic Chemistry II	Organic Chem Lab II	Social Science Elective			

High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

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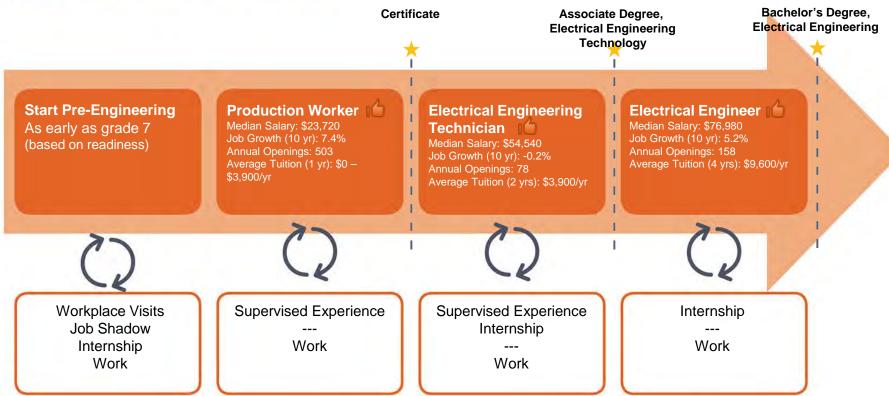
Course titles and sequences will vary between schools.









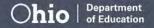


Preparing students for multiple options after high school:

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Ohio In-demand Occupations









Secondary Pathway: Engineering and Design

Postsecondary Program: **Electrical Engineering Technology**

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Pre- Engineering Technologies		
Secondary	9 10	English II	Algebra II	Biology	World History	Health (.5) PE (.5)	Engineering Principles	DC & AC Electronic Circuits	World Languages
Secol	11	English III	Geometry	Chemistry	U.S. History	Analog-Based Electronic Circuits	Digital Electronics	World Languages	
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Robotics	Engineering Capstone		
>	Year 1 1st Semester	English Composition I	Computer Applications	Digital Systems	DC Electronic Systems	PC Tech Essentials			
Postsecondary	Year 1 2nd Semester	College Algebra	AC Electronic Systems	Switching & Amplifier Systems	AC Electronic Systems	Data Communications			
e e	Year 2	Division	Micro	Data Acquisition	Embedded Micro-controller	Advanced			
osts	1st Semester	Physics I	Economics	Systems	Systems	Digital Systems			

High School Career-Technical Education Program Courses

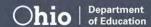
High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

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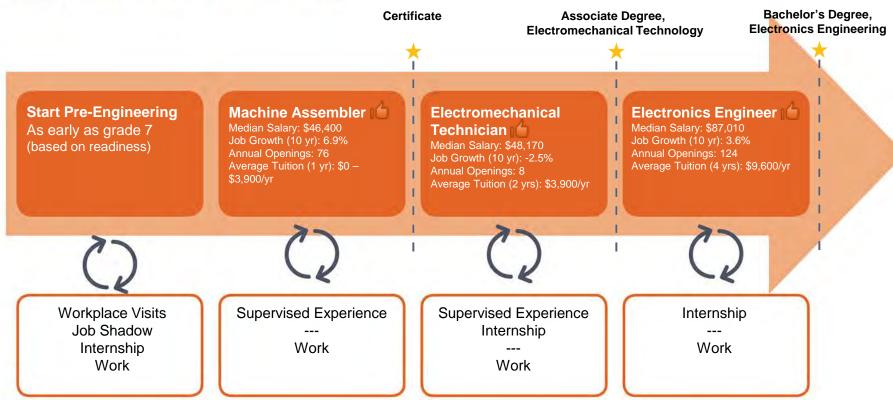
Course titles and sequences will vary between schools.







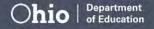




Preparing students for multiple options after high school:

gainful employment and/or postsecondary study.

Maria Propertions Occupations









Secondary Pathway: Engineering and Design

Postsecondary Program: **Electromechanical Technology**

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Pre- Engineering Technologies		
ıdary	9 10	English II	Algebra II	Biology	World History	Health (.5) PE (.5)	Engineering Principles	Engineering Design	World Languages
Secondary	11	English III	Geometry	Chemistry	U.S. History	Analog Based Electronic Devices	DC & AC Electronic Circuits	World Languages	
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Robotics	Digital Electronics		
>	Year 1 1st Semester	Computer Applications	College Algebra	Intro to Engineering Technology	Engineering Design & Graphics	Electric Circuits	Basic Metrology		
ondar	Year 1 2nd Semester	English Composition	Statistics	Physics	CAD I	Electronic Circuits	Fluid Power Transmission		
Postsecondary	Year 2 1st Semester	Interpersonal Communication	Energy, Power & Controls	Metallic Materials & Processes	Digital Electronic Systems	Ethics	Motors and Control Logic		
△	Year 2 2nd Semester	Technical Writing	Electric Machinery & Controls	Electrical Measurement & Instruments	Lean Processing & Systems	Robotics	Micro Economics		

High School Career-Technical Education Program Courses

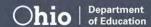
High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

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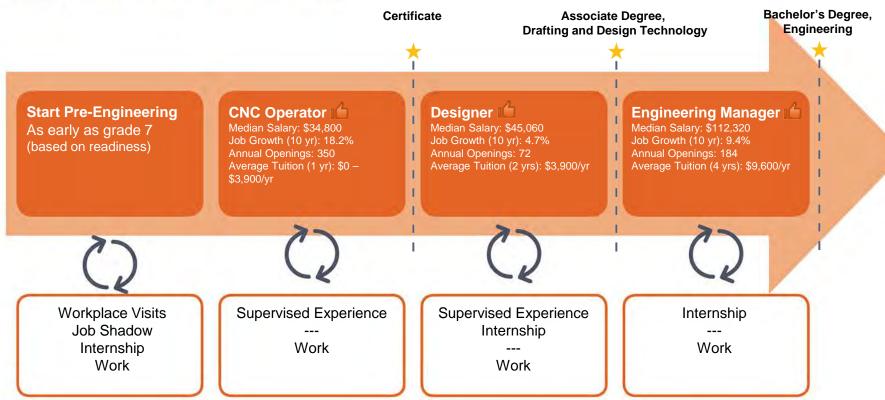
Course titles and sequences will vary between schools.











Preparing students for multiple options after high school:

gainful employment and/or postsecondary study.









Secondary Pathway: Engineering and Design

Postsecondary Program: Engineering Technology

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Pre- Engineering Technologies		
ndary	9 10	English II	Algebra II	Biology	World History	Health (.5) PE (.5)	Engineering Principles	Engineering Design	World Languages
Secondary	11	English III	Geometry	Chemistry	U.S. History	Manufacturing Operations	Digital Electronics	World Languages	
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Robotics	Alternative Energy		
>	Year 1 1st Semester	English Composition I	Technical Math	Intro to Engineering	Manufacturing Processes	Engineering Design			
ondary		•	Technical Math I Technical Math II				Statics		
Postsecondary	1st Semester Year 1	Composition I English	I Technical Math	Engineering	Processes	Design Hydraulics &	Statics		

High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

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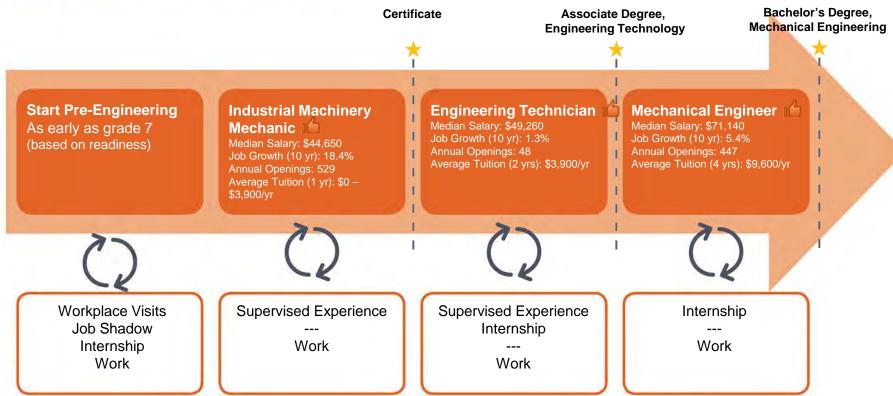
Course titles and sequences will vary between schools.







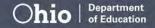




Preparing students for multiple options after high school:

gainful employment and/or postsecondary study.

Ohio In-demand Occupations









Secondary Pathway: Engineering and Design

Postsecondary Program: Mechanical Engineering Technology

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Pre- Engineering Technologies		
Secondary	9 10	English II	Algebra II	Biology	World History	Health (.5) PE (.5)	Engineering Principles	Engineering Design	World Languages
Secol	11	English III	Geometry	Chemistry	U.S. History	Manufacturing Operations	Digital Electronics	World Languages	
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Robotics	Alternative Energy		
>	Year 1 1st Semester	Computer Applications	Technical Math	Intro to Engineering Technology	Manufacturing Materials & Processes	Engineering Graphics			
ondary			Technical Math Statics	Engineering	Materials &				
Postsecondary	1st Semester Year 1	Applications English		Engineering Technology	Materials & Processes	Graphics Machine Tools	Motors and Control Logic		

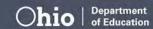
High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

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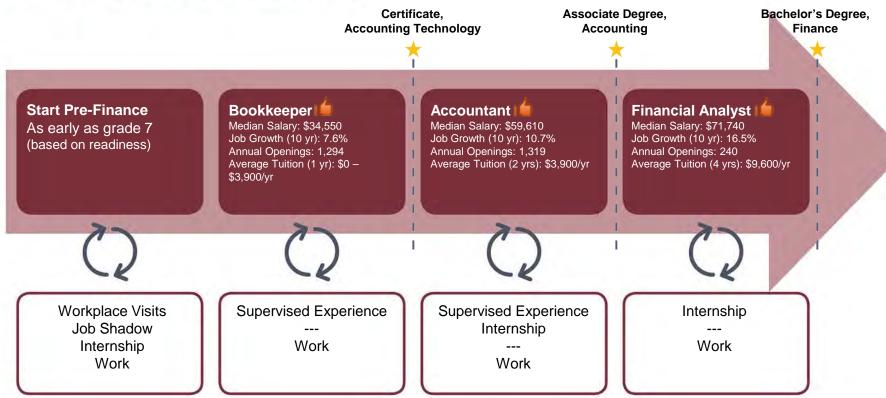








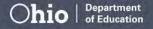
Ohio In-demand Occupations



Provided by middle schools, high schools, employers, Ohio Tech Centers, and colleges.

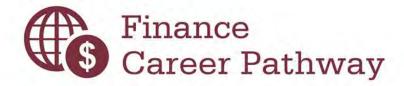
Preparing students for multiple options after high school:

gainful employment and/or postsecondary study.









Secondary Pathway: <u>Finance</u> Postsecondary Program: <u>Accounting</u>

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Business Foundations		
Secondary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Finance Foundations	World Languages	
Secol	11	English III	Algebra II	Chemistry	U.S. History	Financial Accounting	Corporate Finance	World Languages	
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Management Principles	Finance Capstone		
	Year 1 1st Semester	English	Algebra	Financial Accounting	Software Applications	Micro- economics			
Postsecondary	Year 1 2nd Semester	Public Speaking	Business Statistics	Intro to Managerial Accounting	Macro- economics	Computer Accounting Systems			
ostsec	Year 2 1st Semester	Intermediate Accounting I	Cost Accounting	Federal Taxes	Intro to Business	Marketing Management	Natural/ Physical Science		
L	Year 2 2nd Semester	Intermediate Accounting II	Managerial Accounting & Finance	Auditing	Business Law	Accounting Elective	Arts & Humanities Elective		

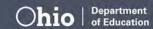
High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

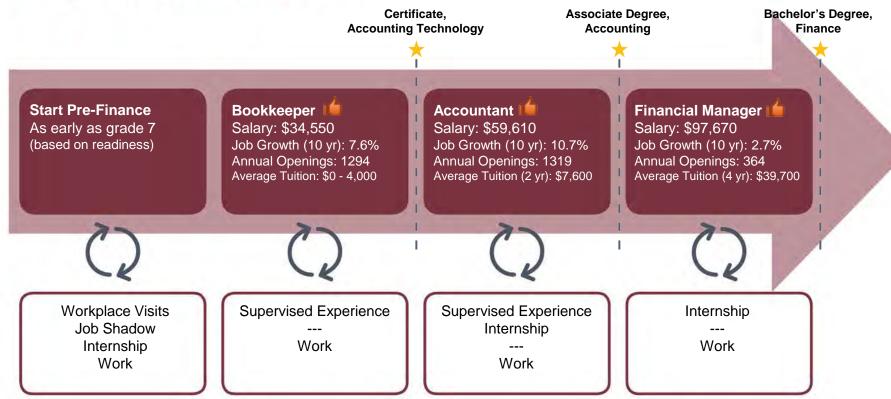
Visit education.ohio.gov/CareerConnections for reference information. Course titles and sequences will vary between schools.











Preparing students for multiple options after high school:

gainful employment and/or postsecondary study.









Secondary Pathway: **Accounting** Postsecondary Program: **Accounting**

Courses with Secondary and Post-Secondary Credits

	7 8	English	Algebra I	Science	Social Studies	Fine Arts		
ndary	9 10	English	Geometry	Biology	US History	Health (.5) PE (.5)	Finance Foundations	Business Foundations
Secondary	11	English	Algebra II	Chemistry	US Government & Economics	Foreign Language	Financial Accounting	Corporate Finance
	12	English	Trigonometry	Physics	Psychology	Foreign Language	Strategic Entrepreneur- ship	Finance Capstone
>	Year 1 1st Semester	English	Algebra	Financial Accounting	Software Applications	Micro- economics		
Post-Secondary	Year 1 2nd Semester	Public Speaking	Business Statistics	Intro to Managerial Accounting	Macro- economics	Computer Accounting Systems		
ost-Se	Year 2 1st Semester	Intermediate Accounting I	Cost Accounting	Federal Taxes	Intro to Business	Marketing Management	Natural/ Physical Science	
ď	Year 2 2nd Semester	Intermediate Accounting II	Managerial Accounting & Finance	Auditing	Business Law	Accounting Elective	Arts & Humanities Elective	

High School CTE Program Courses

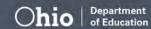
High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommend Electives

Visit education.ohio.gov/CareerConnections for reference information

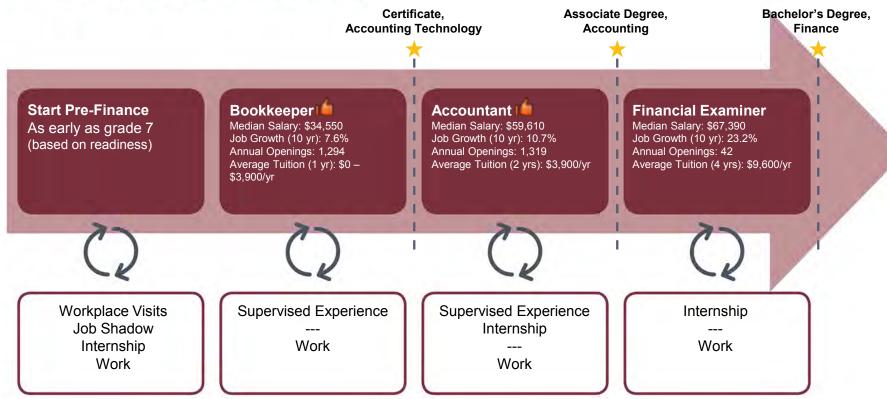
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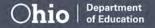






Preparing students for multiple options after high school:

gainful employment and/or postsecondary study.









Secondary Pathway: Finance

Postsecondary Program: Accounting

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Business Foundations		
ndary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Finance Foundations	World Languages	
Secondary	11	English III	Algebra II	Chemistry	U.S. History	Financial Accounting	Corporate Finance	World Languages	
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Management Principles	Finance Capstone		
	Year 1 1st Semester	English	Algebra	Financial Accounting	Software	Micro- economics			
-				Accounting	Applications	economics			
ondary	Year 1 2nd Semester	Public Speaking	Business Statistics	Intro to Managerial Accounting	Macro- economics	Computer Accounting Systems			
Postsecondary				Intro to Managerial	Macro-	Computer Accounting	Natural/ Physical Science		

High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

Visit education.ohio.gov/CareerConnections for reference information. Course titles and sequences will vary between schools.

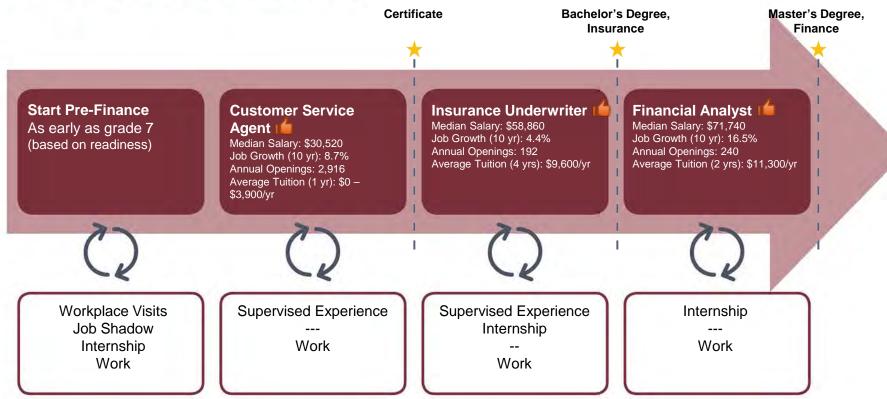








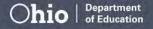
Ohio In-demand Occupations



Provided by middle schools, high schools, employers, Ohio Tech Centers, and colleges.

Preparing students for multiple options after high school:

gainful employment and/or postsecondary study.









Secondary Pathway: <u>Finance</u> Postsecondary Program: <u>Insurance</u>

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Business Foundations		
Secondary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Finance Foundations	Fundamentals of Financial Services	World Languages
Secol	11	English III	Algebra II	Chemistry	U.S. History	Financial Accounting	Financial Services Operations	World Languages	
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Management Principles	Finance Capstone		
_	Year 1 1st Semester	English I	Insurance Principles	Claims Handling	Software Applications	Organizational Behavior			
Postsecondary	Year 1 2nd Semester	Principles of Management	Property Coverages	Loss Adjustment	Insurance Claims Software	Customer Service in Insurance			
ostsec	Year 2 1st Semester	English II	Business Math	Micro- economics	Marketing Management	Employability Skills			
Ф.	Year 2 2nd Semester	Negotiation Skills	Statistics	Financial Accounting	Legal Environment of Business	Business Policy			

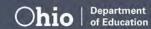
High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

Visit education.ohio.gov/CareerConnections for reference information. Course titles and sequences will vary between schools.

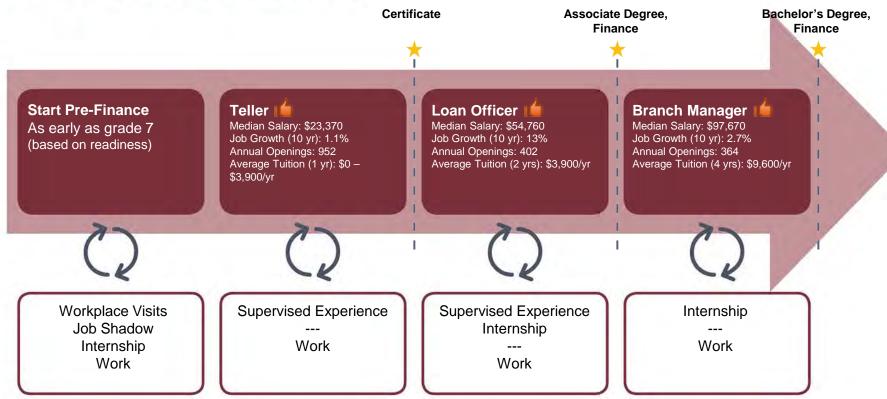








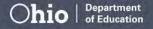
Ohio In-demand Occupations



Provided by middle schools, high schools, employers, Ohio Tech Centers, and colleges.

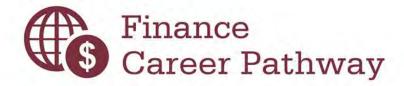
Preparing students for multiple options after high school:

gainful employment and/or postsecondary study.









Secondary Pathway: <u>Finance</u> Postsecondary Program: <u>Financial Services</u>

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Business Foundations		
ndary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Finance Foundations	Management Principles	World Languages
Secondary	11	English III	Algebra II	Chemistry	U.S. History	Financial Accounting	Fundamentals of Financial Services	World Languages	
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Financial Services Operations	Finance Capstone		
	Year 1 1st Semester	English	College	Financial	Software	Personal	Business		
>	ist semester	· ·	Seminar	Accounting	Applications	Finance	Language		
ondary	Year 1 2nd Semester	Business Applications	Investments	Statistics	Applications Managerial Accounting	Management	Micro- economics	Natural/ Physical Science	
Postsecondary	Year 1				Managerial		Micro-	Physical	

High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

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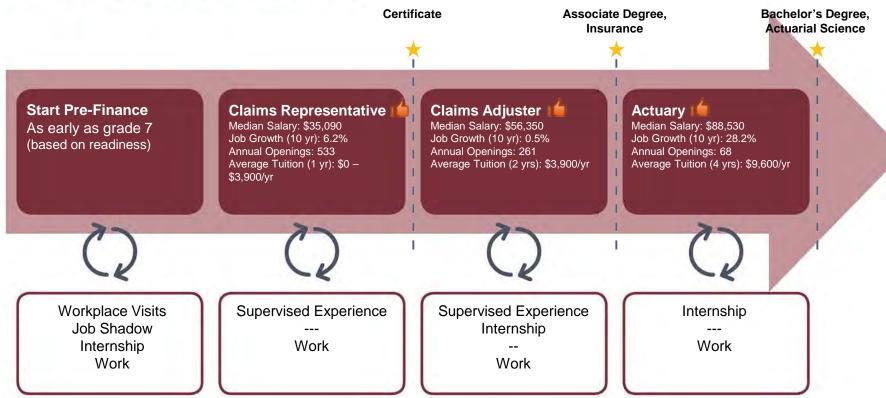
Course titles and sequences will vary between schools.







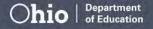




Preparing students for multiple options after high school:

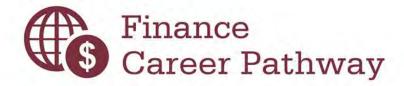
gainful employment and/or postsecondary study.

| Ohio In-demand Occupations









Secondary Pathway: <u>Finance</u> Postsecondary Program: <u>Insurance</u>

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Business Foundations		
Secondary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Finance Foundations	Fundamentals of Financial Services	World Languages
Secol	11	English III	Algebra II	Chemistry	U.S. History	Financial Accounting	Financial Services Operations	World Languages	
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Management Principles	Finance Capstone		
	Year 1 1st Semester	English I	Insurance Principles	Claims Handling	Software Applications	Organizational Behavior			
Postsecondary	Year 1 2nd Semester	Principles of Management	Property Coverages	Loss Adjustment	Insurance Claims Software	Customer Service in Insurance			
ostsec	Year 2 1st Semester	English II	Business Math	Micro- economics	Marketing Management	Employability Skills			
<u>а</u> .	Year 2 2nd Semester	Negotiation Skills	Statistics	Financial Accounting	Legal Environment of Business	Business Policy			

High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

Visit education.ohio.gov/CareerConnections for reference information.

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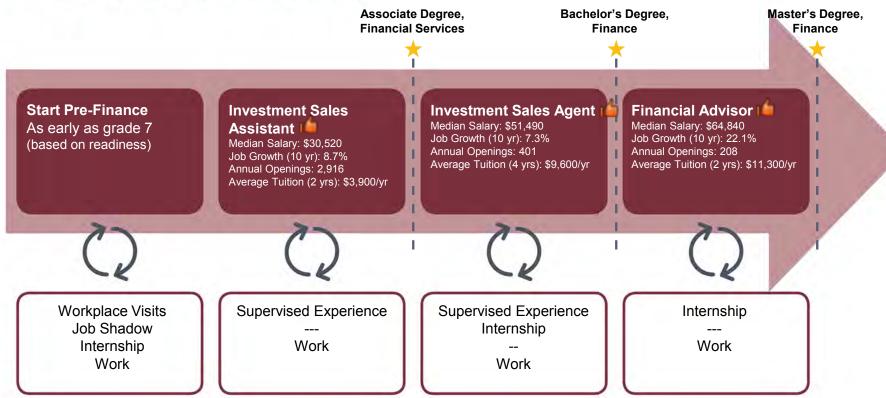
Course titles and sequences will vary between schools.











Preparing students for multiple options after high school:

gainful employment and/or postsecondary study.

Miles Ohio In-demand Occupations









Secondary Pathway: Finance

Postsecondary Program: Financial Services

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Business Foundations		
Secondary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Finance Foundations	Fundamentals of Financial Services	World Languages
Secol	11	English III	Algebra II	Chemistry	U.S. History	Financial Accounting	Financial Services Operations	World Languages	
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Management Principles	Finance Capstone		
>	Year 1 1st Semester	English Composition I	Financial Accounting	Legal Environment of Business	Microcomputer Applications I	Macro- economics			
ondar	Year 1 2nd Semester	English Composition II	Managerial Accounting	Principles of Banking	College Algebra	Micro- economics			
Postsecondary	Year 2 1st Semester	Sociology	Business Finance	Principles of Management	Science Elective				
₾.	Year 2 2nd Semester	Business Communication	Principles of Insurance	Fundamentals of Investments	Principles of Marketing				

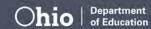
High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

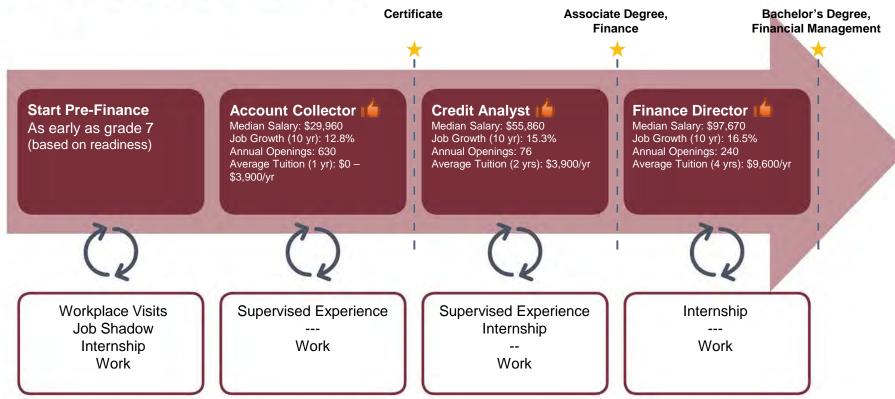
Visit education.ohio.gov/CareerConnections for reference information. Course titles and sequences will vary between schools.







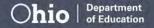




Preparing students for multiple options after high school:

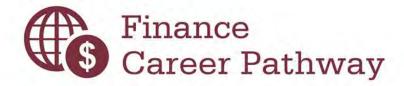
gainful employment and/or postsecondary study.

| Ohio In-demand Occupations









Secondary Pathway: <u>Finance</u> Postsecondary Program: <u>Financial Services</u>

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Business Foundations		
ndary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Finance Foundations	Management Principles	World Languages
Secondary	11	English III	Algebra II	Chemistry	U.S. History	Financial Accounting	Fundamentals of Financial Services	World Languages	
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Financial Services Operations	Finance Capstone		
	Year 1 1st Semester	English	College	Financial	Software	Personal	Business		
>	ist semester	· ·	Seminar	Accounting	Applications	Finance	Language		
ondary	Year 1 2nd Semester	Business Applications	Investments	Statistics	Applications Managerial Accounting	Management	Micro- economics	Natural/ Physical Science	
Postsecondary	Year 1				Managerial		Micro-	Physical	

High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

Visit education.ohio.gov/CareerConnections for reference information.

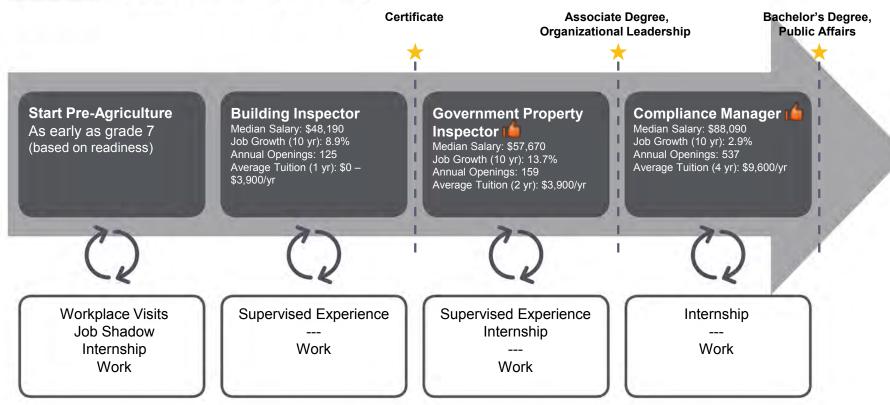
Course titles and sequences will vary between schools.







Government and Public Administration Career Pathway



Provided by middle schools, high schools, employers, Ohio Tech Centers, and colleges.

Preparing students for multiple options after high school:

gainful employment and/or postsecondary study.

Maria Propertions Occupations









Secondary Pathway: **Government and Public Administration**

Postsecondary Program: Organizational Leadership

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts			
Secondary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Civics	World Languages	
Secol	11	English III	Algebra II	Chemistry	U.S. History	Ethics	World Languages		
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Psychology	Intro to Public Affairs		
	Year 1 1st Semester	English Composition	Accounting I	Business Law	Public Affairs	Business Ethics	Construction Documents		
Postsecondary	Year 1 2nd Semester	Communication	Accounting II	Macro- economics	Organizational Behavior	Leadership: Theory & Application	OSHA Safety & Health		
ostsec	Year 2 1st Semester	Calculus	Corporate Finance	Micro- economics	Non-Profit Management	Construction Drawings	Safety & Loss Prevention		
Δ.	Year 2 2nd Semester	Group Dynamics & Team Building	Contemporary Issues in Leadership	Statistics	Principles of Marketing	Construction Methods			

High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

Visit education.ohio.gov/CareerConnections for reference information. Course titles and sequences will vary between schools.

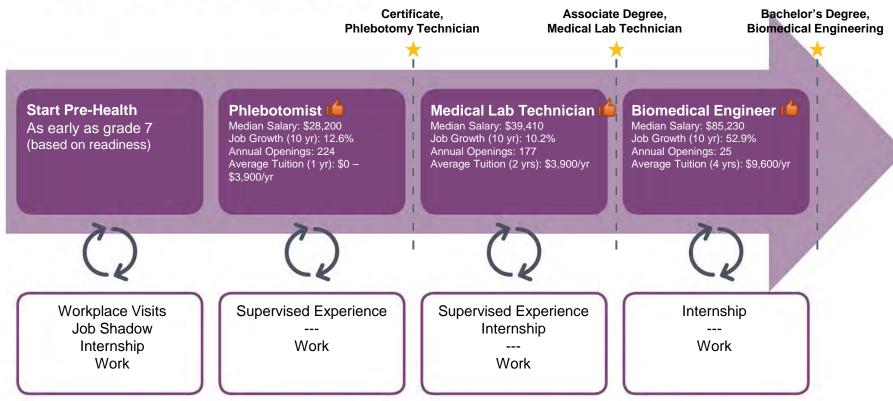








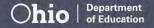
Ohio In-demand Occupations



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Preparing students for multiple options after high school:

gainful employment and/or postsecondary study.









Secondary Pathway: Medical Bioscience

Postsecondary Program: Medical Laboratory Technology

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Health Science & Technology		
Secondary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Principles of Biomedical Technology	World Languages	
Secol	11	English III	Algebra II	Chemistry	U.S. History	Medical Terminology	Biomedical Engineering	World Languages	
	12	English IV	Trigonometry/ Calculus	Anatomy & Physiology	U.S. Government	Biochemistry of Health	Genetics of Disease		
>	Year 1 1st Semester	English Composition	College Algebra	Human Anatomy	Intro to Medical Lab Technology	Hematology I	Medical Terminology		
ondar	Year 1 2nd Semester	Immunology	Microbiology	Clinical Chemistry	Human Physiology				
Postsecondary	Year 2 1st Semester	Statistics	Psychology	Intro to Humanities	Body Fluids	Venipuncture for HC Providers			
G .	Year 2 2nd Semester	Healthcare Resource Management	Medical Lab Case Studies	Immuno- hematology	Hematology II	Clinical Practicum			

High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

 ${\it Visit\ education.ohio.gov/Career Connections\ for\ reference\ information.}$

Course titles and sequences will vary between schools.

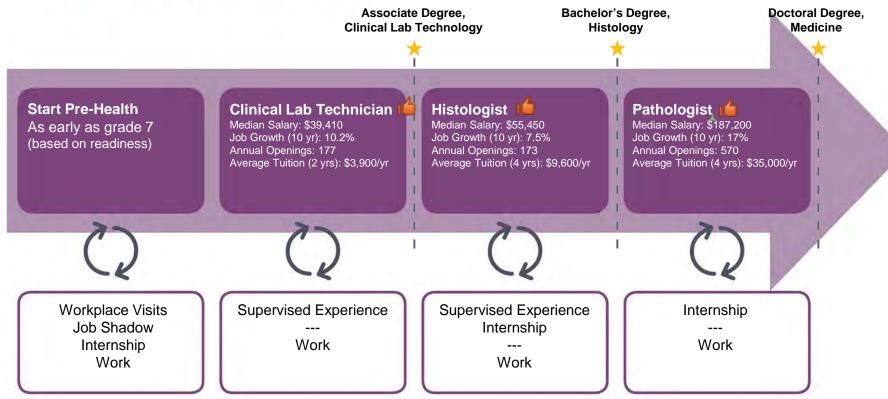
Ohio | Department







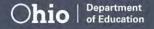
Ohio In-demand Occupations



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Secondary Pathway: Medical Bioscience

Postsecondary Program: Medical Laboratory Technology

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Health Science & Technology		
Secondary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Principles of Biomedical Technology	Biomedical Engineering	World Languages
Secol	11	English III	Algebra II	Chemistry	U.S. History	Medical Terminology	World Languages		
	12	English IV	Trigonometry/ Calculus	Anatomy & Physiology	U.S. Government	Biochemistry of Health	Genetics of Disease		
	Year 1				Intro to Medical				
>	1st Semester	Statistics	College Seminar	Human Anatomy	Lab Technology	Hematology I	Medical Terminology		
ondary		Statistics			Lab	Intro to Humanities			
Postsecondary	1st Semester Year 1		Seminar	Anatomy	Lab Technology Human	Intro to			

High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

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Course titles and sequences will vary between schools.

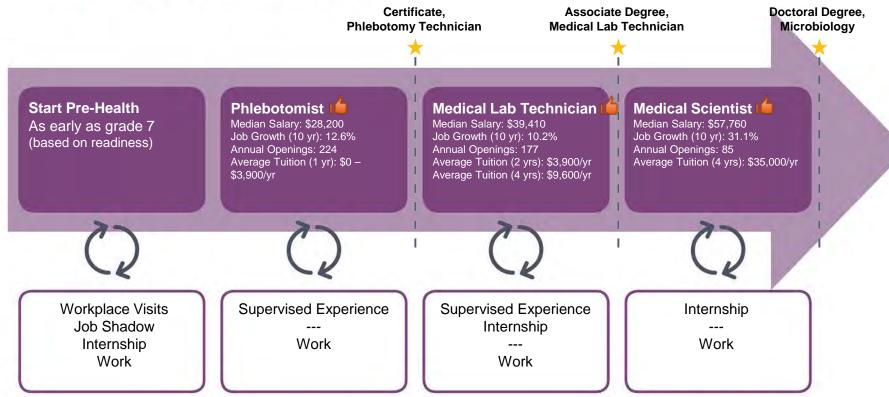
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Ohio MEANS Jobs





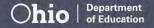
Ohio In-demand Occupations



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Preparing students for multiple options after high school:

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Secondary Pathway: Medical Bioscience

Postsecondary Program: Medical Laboratory Technology

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Health Science & Technology		
Secondary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Principles of Biomedical Technology	Biomedical Engineering	World Languages
Secol	11	English III	Algebra II	Chemistry	U.S. History	Medical Terminology	Biotechnology for Health & Disease	World Languages	
	12	English IV	Trigonometry/ Calculus	Anatomy & Physiology	U.S. Government	Biochemistry of Health	Genetics of Disease		
>	Year 1 1st Semester	English Composition I	College Algebra	Anatomy & Physiology I	Elementary Chemistry	Hematology & Coagulation	Medical Terminology		
ondar	Year 1 2nd Semester	English Composition II	Microbiology	Anatomy & Physiology II	Organic Chemistry	Urinalysis	Body Fluids		
Postsecondary	Year 2 1st Semester	Interpersonal Communication	Clinical Microbiology	Electronic Health Records	Clinical Chemistry	Clinical Immunology	Blood Collection Techniques		
а.	Year 2 2nd Semester	Psychology	Immuno- hematology	Clinical Practicum	Medical Lab Tech Seminar				

High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

 ${\it Visit\ education. ohio. gov/Career Connections\ for\ reference\ information.}$

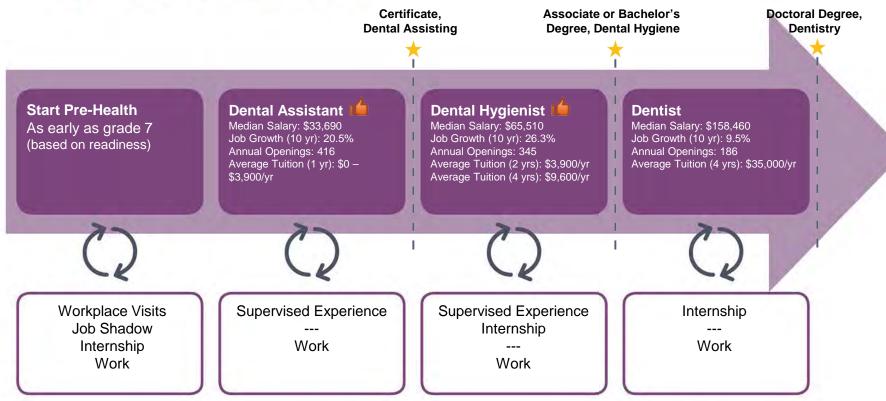
Course titles and sequences will vary between schools.











Preparing students for multiple options after high school:

gainful employment and/or postsecondary study.

Data reflects 2014 Ohio labor statistics and public institutions of higher education for 2013-2014. For specific tuition costs, visit ohiohighered.org.

Ohio In-demand Occupations









Secondary Pathway: Allied Health and Nursing

Postsecondary Program: **Dental Hygiene**

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Health Science & Technology		
ndary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Principles of Allied Health	World Languages	
Secondary	11	English III	Algebra II	Chemistry	U.S. History	Dental Technology	Medical Terminology	World Languages	
	12	English IV	Trigonometry/ Calculus	Anatomy & Physiology	U.S. Government	Dental Radiography	Oral Diagnosis & Treatment Planning		
	Year 1 1st Semester	College Seminar	Human Patho- physiology	Dental Anatomy &	Dental Hygiene	Intro to Dental	Periodontology	Preventive	Techniques I
ondary		Comma	priysiology	Physiology	Pre-Clinic	Hygiene	1	Concepts	
condary	Year 1 2nd Semester	English	Intro to Microbiology	Physiology Techniques II	Clinic I	Oral Pathology	Periodontology II	Concepts Community Health Concepts	Dental Radiography
Postsecondary			Intro to	, 0,			0,	Community Health	Dental

High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

Visit education.ohio.gov/CareerConnections for reference information.

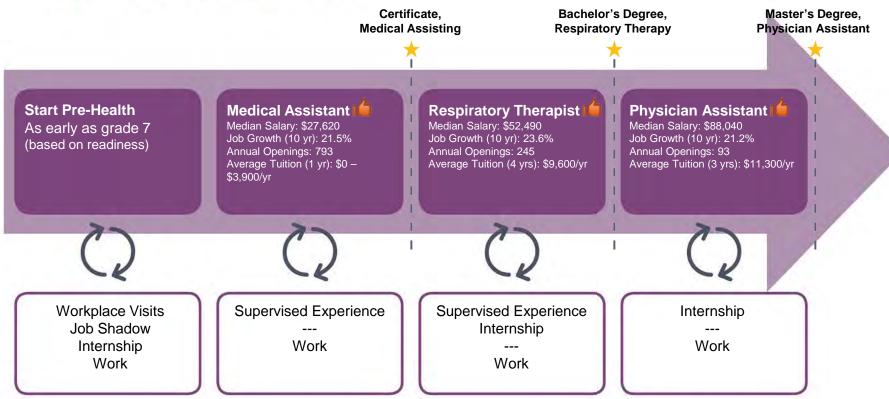
Course titles and sequences will vary between schools.

Ohio | Department







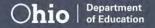


Preparing students for multiple options after high school:

gainful employment and/or postsecondary study.

Data reflects 2014 Ohio labor statistics and public institutions of higher education for 2013-2014. For specific tuition costs, visit ohiohighered.org.

Ohio In-demand Occupations









Secondary Pathway: Allied Health and Nursing

Postsecondary Program: Medical Assisting

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Health Science & Technology		
ndary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Principles of Allied Health	World Languages	
Secondary	11	English III	Algebra II	Chemistry	U.S. History	Nutrition and Wellness	Medical Terminology	World Languages	
	12	English IV	Trigonometry/ Calculus	Anatomy & Physiology	U.S. Government	Clinical Laboratory Techniques	Patient Centered Care	Mental Health	
>	Year 1 1st Semester	English	Anatomy & Physiology I	Intro to U.S. Healthcare	Medical Terminology	Ethical/ Legal Issues in Health	Computer Applications	Customer Service in Healthcare	
ondar	Year 1 2nd Semester	English	Anatomy & Physiology II	Pharmacology	Intro to Medical Assisting	Psychology	Phlebotomy	Medical Office Insurance	
Postsecondary	Year 2 1st Semester	Interpersonal Communication	Patho- physiology	Basic Electro- cardiogram	Clinical Medical Assisting	Surgical Procedures	Physician Office Lab	Advanced Medical Terminology	
₾.	Year 2 2nd Semester	Medical Assisting Practicum	Phlebotomy Clinical Practicum	Phlebotomy Seminar	Medical Assisting Seminar	Arts & Humanities Elective	Social/ Behavioral Science	General Elective	

High School Career-Technical Education Program Courses

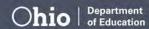
High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

 ${\it Visit\ education.ohio.gov/Career Connections\ for\ reference\ information.}$

Course titles and sequences will vary between schools.

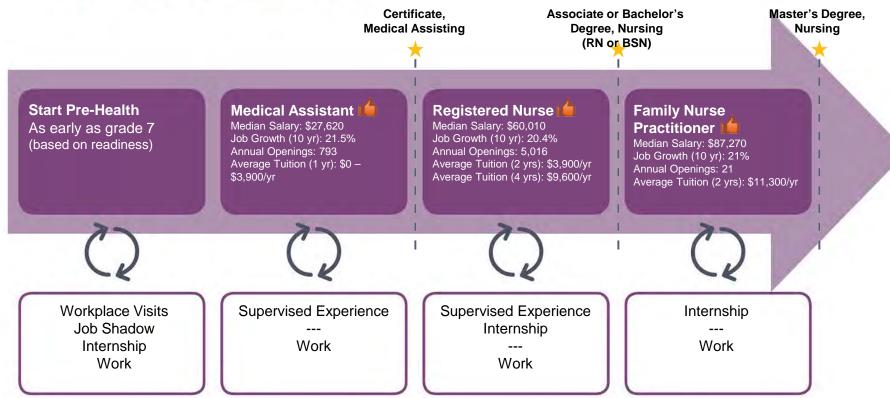








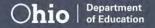
Ohio In-demand Occupations



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Preparing students for multiple options after high school:

gainful employment and/or postsecondary study.









Secondary Pathway: Allied Health and Nursing

Postsecondary Program: Nursing

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Health Science & Technology		
Secondary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Principles of Allied Health	Nutrition and Wellness	World Languages
Secol	11	English III	Algebra II	Chemistry	U.S. History	Mental Health	Medical Terminology	World Languages	
	12	English IV	Trigonometry/ Calculus	Anatomy & Physiology	U.S. Government	Clinical Laboratory Techniques	Patient Centered Care		
	Year 1		0.11						
>	1st Semester	English	College Algebra	College Seminar	Nursing Foundations	Human Growth & Development	Human Anatomy	Patient Care	
ondary		English Statistics	•	~				Patient Care Biochemistry	
Postsecondary	1st Semester Year 1		Algebra Health Maintenance &	Seminar	Foundations Human	& Development Family & Community	Anatomy Human Patho-		

High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

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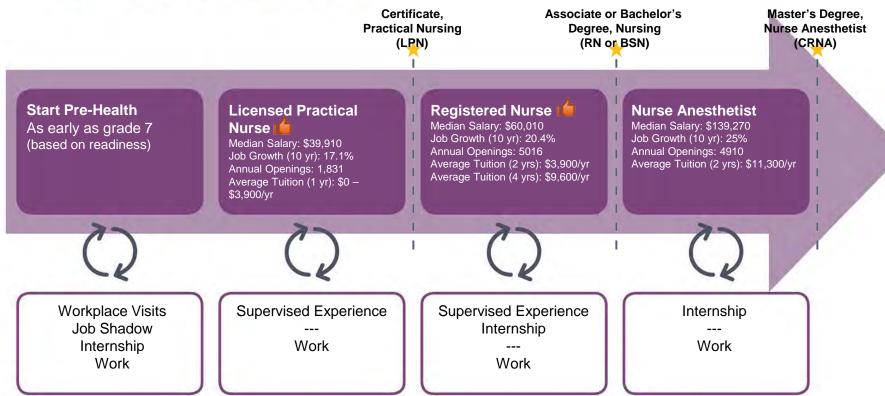
Course titles and sequences will vary between schools.

Ohio MEANS Jobs





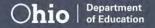
Ohio In-demand Occupations



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Preparing students for multiple options after high school:

gainful employment and/or postsecondary study.









Secondary Pathway: Allied Health and Nursing

Postsecondary Program: Nursing

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Health Science & Technology		
Secondary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Principles of Allied Health	Nutrition and Wellness	World Languages
Secol	11	English III	Algebra II	Chemistry	U.S. History	Mental Health	Medical Terminology	World Languages	
	12	English IV	Trigonometry/ Calculus	Anatomy & Physiology	U.S. Government	Clinical Laboratory Techniques	Patient Centered Care		
	Year 1		0 "						
>	1st Semester	English	College Algebra	College Seminar	Nursing Foundations	Human Growth & Development	Human Anatomy	Patient Care	
ondary		English Statistics	•	~				Patient Care Biochemistry	
Postsecondary	1st Semester Year 1		Algebra Health Maintenance &	Seminar	Foundations Human	& Development Family & Community	Anatomy Human Patho-		

High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

Visit education.ohio.gov/CareerConnections for reference information.

Course titles and sequences will vary between schools.

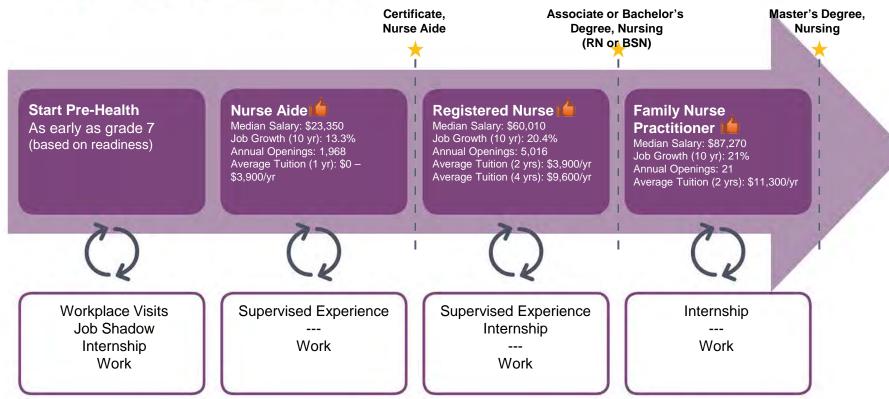




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Ohio In-demand Occupations



Provided by middle schools, high schools, employers, Ohio Tech Centers, and colleges.

Preparing students for multiple options after high school:

gainful employment and/or postsecondary study.









Secondary Pathway: Allied Health and Nursing

Postsecondary Program: Nursing

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Health Science & Technology		
Secondary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Principles of Allied Health	Nutrition and Wellness	World Languages
Secol	11	English III	Algebra II	Chemistry	U.S. History	Mental Health	Medical Terminology	World Languages	
	12	English IV	Trigonometry/ Calculus	Anatomy & Physiology	U.S. Government	Clinical Laboratory Techniques	Patient Centered Care		
	Year 1		0 "						
>	1st Semester	English	College Algebra	College Seminar	Nursing Foundations	Human Growth & Development	Human Anatomy	Patient Care	
ondary		English Statistics	•	~				Patient Care Biochemistry	
Postsecondary	1st Semester Year 1		Algebra Health Maintenance &	Seminar	Foundations Human	& Development Family & Community	Anatomy Human Patho-		

High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

Visit education.ohio.gov/CareerConnections for reference information.

Course titles and sequences will vary between schools.

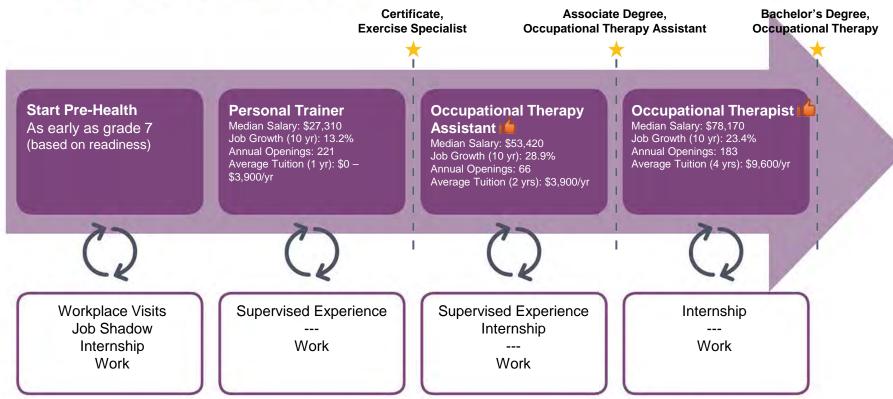




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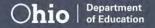
Ohio In-demand Occupations



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gainful employment and/or postsecondary study.









Secondary Pathway: Exercise Science and Sports Medicine

Postsecondary Program: Occupational Therapy

Courses with Secondary and Post-Secondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Health Science & Technology		
ndary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Exercise & Athletic Training	Nutrition & Wellness	World Languages
Secondary	11	English III	Algebra II	Chemistry	U.S. History	Bio-statistics in Exercise Science	Exercise Physiology & Biochemistry	World Languages	
	12	English IV	Trigonometry/ Calculus	Anatomy & Physiology	U.S. Government	Fitness Evaluation & Assessment	Athletic Inquiries & Prevention	Health Science Capstone	
>	Year 1 1st Semester	English Composition I	Anatomy & Physiology I	Intro to Occ. Therapy Assisting	Occupational Therapy Techniques	Theory of Occupational Therapy			
condar	Year 1 2nd Semester	Intro to Psychology	Intro to Sociology	Pediatric Concepts and Skills	Therapeutic Media: Pediatrics	Occ. Therapy Assisting Field Experience I			
Post-Secondary	Year 2 1st Semester	Interpersonal Communication	Anatomy & Physiology II	Psychosocial Concepts and Skills	Therapeutic Media: Psychosocial	Occ. Therapy Assisting Field Experience II			
<u> </u>	Year 2 2nd Semester	English Composition II	Kinesiology	Physical Disability Concept/Skills	Therapeutic Media: Physical Dis.	Occ. Therapy Assisting Field Experience III			

High School CTE Program Courses

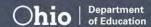
High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommend Electives

 ${\it Visit\ education. ohio. gov/Career Connections\ for\ reference\ information.}$

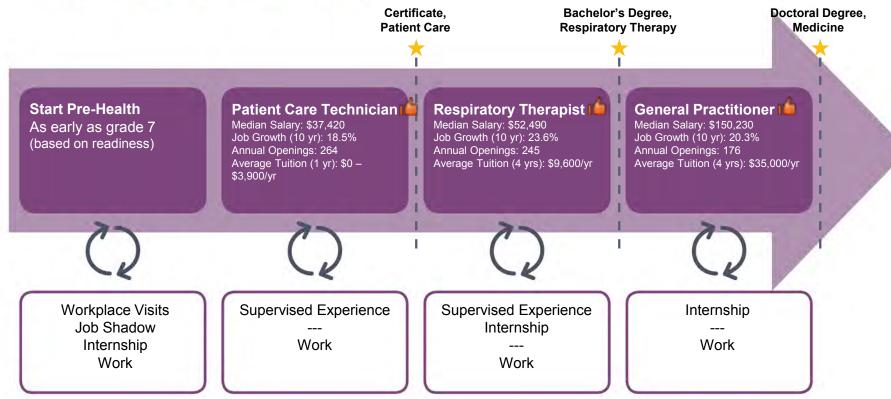
Course titles and sequences will vary between schools.











Preparing students for multiple options after high school:

gainful employment and/or postsecondary study.

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Ohio In-demand Occupations









Secondary Pathway: Allied Health and Nursing

Postsecondary Program: Respiratory Care

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Health Science & Technology		
Secondary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Principles of Allied Health	World Languages	
Secol	11	English III	Algebra II	Chemistry	U.S. History	Medical Terminology	Human Patho- physiology	World Languages	
	12	English IV	Trigonometry/ Calculus	Anatomy & Physiology	U.S. Government	Patient Centered Care	Pharmacology		
>	Year 1 1st Semester	English	College Seminar	Algebra	Intro to Clinical Experience	Human Anatomy	Intro to Respiratory Care	Medical Terminology	
ondary		English Organic & Biochemistry		Algebra Therapeutic Procedures I			Respiratory		Cardio Anatomy & Physiology
Postsecondary	1st Semester Year 1	Organic &	Seminar Human	Therapeutic	Experience Clinical	Anatomy	Respiratory Care Respiratory	Terminology Respiratory	Anatomy &

High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

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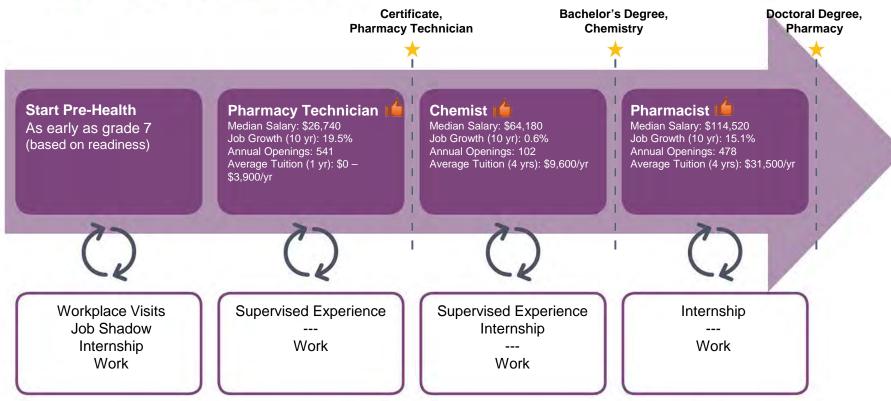
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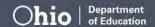






Preparing students for multiple options after high school:

gainful employment and/or postsecondary study.









Secondary Pathway: Medical Bioscience

Postsecondary Program: Chemical Technology

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Health Science & Technology		
Secondary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Principles of Biomedical Technology	Biomedical Engineering	World Languages
Secol	11	English III	Algebra II	Chemistry	U.S. History	Human Patho- physiology	World Languages		
	12	English IV	Trigonometry/ Calculus	Anatomy & Physiology	U.S. Government	Biochemistry of Health	Genetics of Disease		
>	Year 1 1st Semester	English Composition	Statistics I	Chemistry I	Chemical Technology I	Social Science Elective			
Postsecondary	Year 1 2nd Semester	Statistics II	Calculus I	Chemistry II	Chemical Technology II	Bio-Organic Chemistry	Chemical Technology Co-Op I		
ŏ	Year 2	Composition II	Public	Calculus II	Analytical Chemistry	Biology I			
osts	1st Semester	, , , , , , , , , , , , , , , , , , ,	Speaking		Chemistry				

High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

Visit education.ohio.gov/CareerConnections for reference information. Course titles and sequences will vary between schools.

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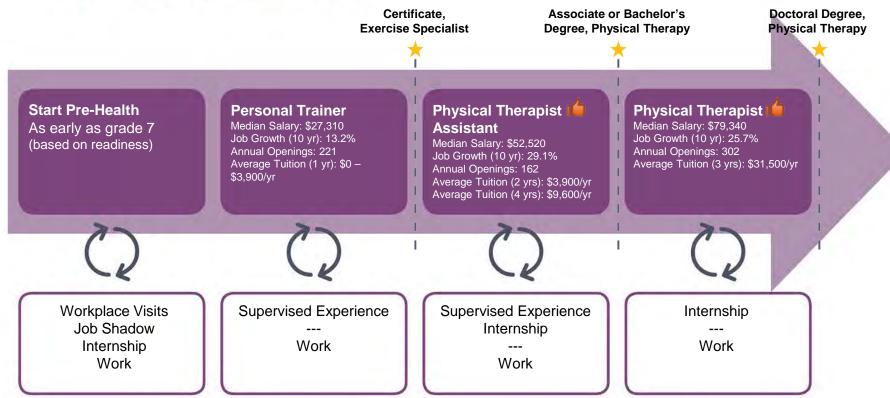








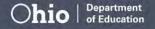
Ohio In-demand Occupations



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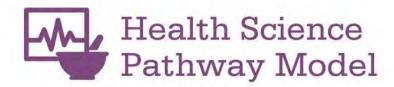
Preparing students for multiple options after high school:

gainful employment and/or postsecondary study.









Secondary Pathway: Exercise Science and Sports Medicine

Postsecondary Program: Physical Therapy Assistant

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Health Science & Technology		
Secondary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Exercise & Athletic Training	Medical Terminology	World Languages
Secol	11	English III	Algebra II	Chemistry	U.S. History	Sports Exercise Psychology	Human Anatomy & Physiology	World Languages	
	12	English IV	Trigonometry/ Calculus	Anatomy & Physiology	U.S. Government	Athletic Inquiries & Prevention	Exercise Physiology & Biochemistry	Nutrition & Wellness	
>	Year 1 1st Semester	English I	Intro to Physical Therapy	Physical Therapy Procedures I	Medical Terminology	Anatomy & Physiology I			
Postsecondary	Year 1 2nd Semester	English II	Rehabilitation I	Physical Therapy Procedures II	Psychology	Anatomy & Physiology II	First-Year Capstone		
ostsec	Year 2 1st Semester	Calculus	Rehabilitation II	Physical Therapy Procedures III	PT Trends & Issues	Directed Practice I	Seminar I		
<u>a</u>	Year 2 2nd Semester	Human Growth & Development	PT Special Topics	Directed Practice II & III	Seminar II & III				

High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

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Course titles and sequences will vary between schools.

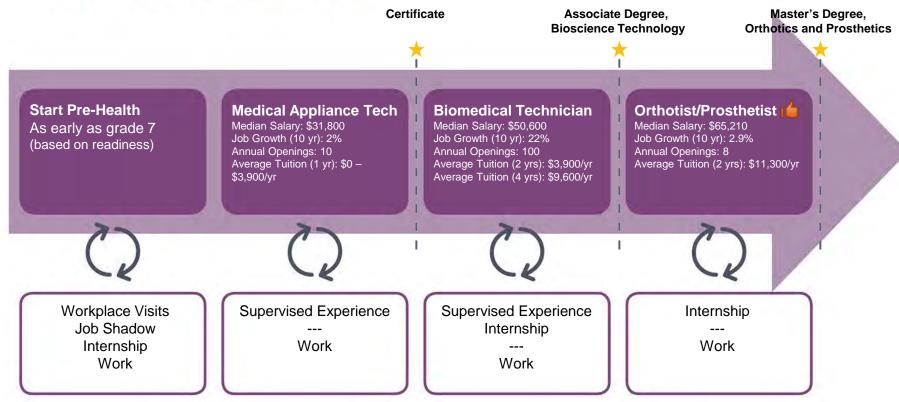
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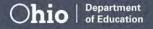




Preparing students for multiple options after high school:

gainful employment and/or postsecondary study.

Maria Propertions









Secondary Pathway: Medical Bioscience

Postsecondary Program: Bioscience Technology

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Health Science & Technology		
Secondary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Principles of Biomedical Technology	World Languages	
Seco	11	English III	Algebra II	Chemistry	U.S. History	Medical Terminology	Biomedical Engineering	World Languages	
	12	English IV	Trigonometry/ Calculus	Anatomy & Physiology	U.S. Government	Biochemistry of Health	Genetics of Disease		
>	Year 1 1st Semester	English Composition I	College Algebra	Biology I	Bioscience Lab Skills	Bio- manufacturing	Bio-informatics		
condary		•	•	Biology I			Bio-informatics		
Postsecondary	1st Semester Year 1	Composition I English	Algebra		Skills Bioscience Lab	manufacturing	Bio-informatics		

High School Career-Technical Education Program Courses

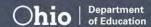
High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

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Course titles and sequences will vary between schools.

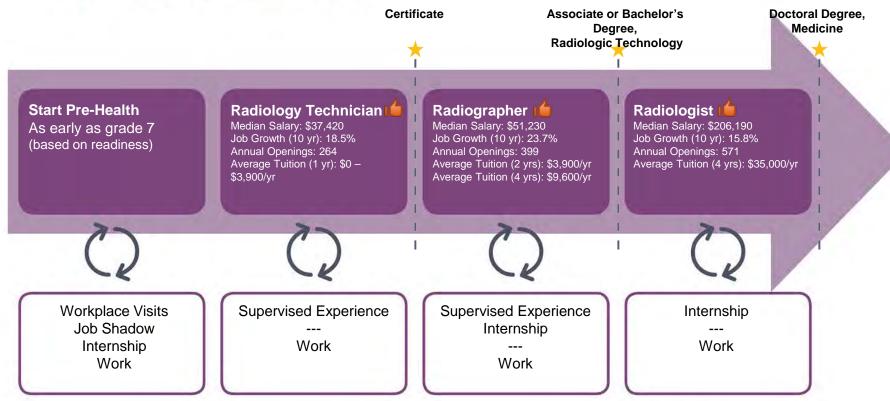








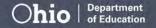
Ohio In-demand Occupations



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Preparing students for multiple options after high school:

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Secondary Pathway: Allied Health and Nursing

Postsecondary Program: Radiology

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Health Science & Technology		
Secondary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Principles of Allied Health	World Languages	
Secol	11	English III	Algebra II	Chemistry	U.S. History	Medical Terminology	Human Patho- physiology	World Languages	
	12	English IV	Trigonometry/ Calculus	Anatomy & Physiology	U.S. Government	Clinical Laboratory Techniques	Patient Centered Care & Diagnostics		
>	Year 1 1st Semester	English Composition I	Human Anatomy & Physiology I	Medical Terminology	Imaging Science I	Radiologic Procedures I	Clinical Practicum		
Postsecondary	Year 1 2nd Semester	English Composition II	Algebra	Human Anatomy & Physiology II	Imaging Science II	Radiologic Procedures II	Clinical Practicum		
ostse	Year 2 1st Semester	Speech	Legal Aspects of Healthcare	Imaging Science III	Radiologic Procedures III	Clinical Practicum			
L	Year 2 2nd Semester	Humanities Elective	Sociology	Imaging Science IV	Radiologic Procedures IV	Clinical Practicum			

High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

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Course titles and sequences will vary between schools.

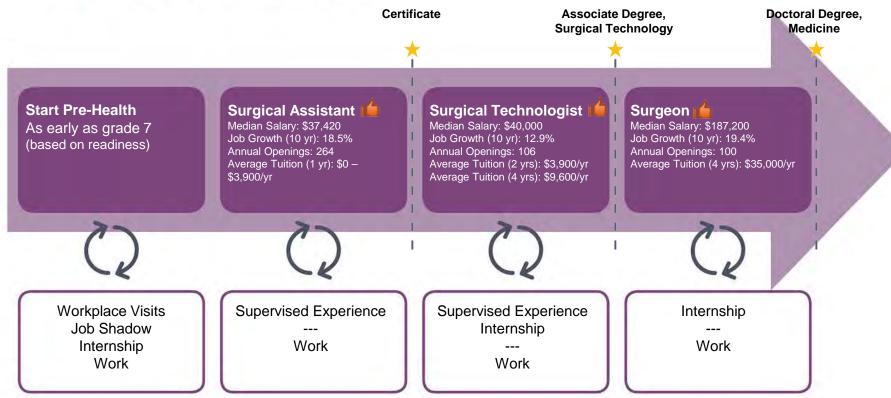
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Preparing students for multiple options after high school:

gainful employment and/or postsecondary study.

| Ohio In-demand Occupations









Secondary Pathway: Allied Health and Nursing

Postsecondary Program: Surgery Technology

Courses with Secondary and Post-Secondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Health Science & Technology		
ndary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Principles of Allied Health	World Languages	
Secondary	11	English III	Algebra II	Chemistry	U.S. History	Medical Terminology	Human Patho- physiology	World Languages	
	12	English IV	Trigonometry/ Calculus	Anatomy & Physiology	U.S. Government	Patient Centered Care	Surgical Support		
>	Year 1 1st Semester	English Composition I	Anatomy & Physiology I	Medical Terminology I	Survey of Surgical Technology	Introduction to Pharmacology	Introduction to Surgery		
Post-Secondary	Year 1 2nd Semester	Microbiology	Anatomy & Physiology II	General Surgery	Clinical Experience I	Clinical Experience II	Surgery Lab		
ost-Se	Year 2 1st Semester	College Algebra	Surgical Specialties	Medical Terminology II	Clinical Experience III				
ď	Year 2 2nd Semester	Interpersonal Communication	Bioethics	Clinical Experience IV					

High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

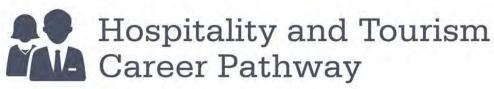
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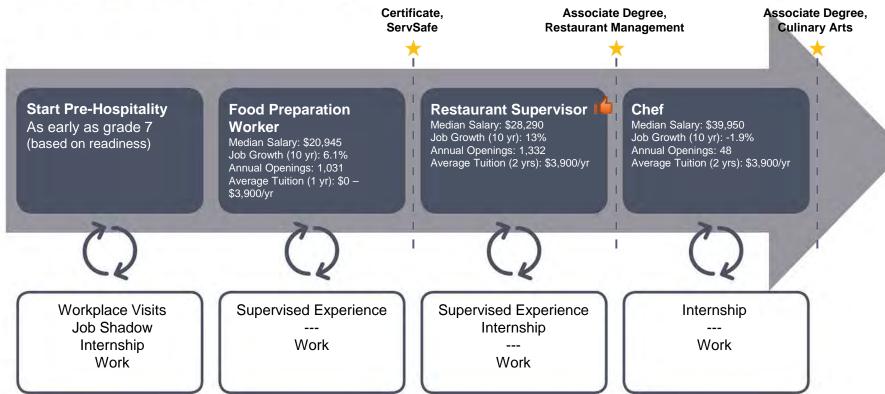
Course titles and sequences will vary between schools.

Ohio | Department





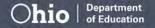




Preparing students for multiple options after high school:

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Ohio In-demand Occupations







Secondary Pathway: Culinary Arts and Food Service Operations

Postsecondary Program: Culinary Arts

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts			
ndary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Introduction to Hospitality & Tourism	World Languages	
Secondary	11	English III	Algebra II	Chemistry	U.S. History	Intro to Hospitality/ ServSafe	Nutrition & Wellness	World Languages	
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Quantity Food Preparation	Hospitality Capstone		
>	Year 1 1st Semester	English I	Basic Nutrition	Dining Room & Beverage Management	Mixology	College Seminar			
ondar	Year 1 2nd Semester	English II	College Math	Computer Applications	American Regional Cuisine	Menu Development	Risk Mgmt. in Hospitality Industry	Hospitality Elective	
Postsecondary	Year 2 1st Semester	Business Communication	Career & Professional Development	Healthy Cooking Techniques	Essentials of Supervision	Garde Manger	International Cuisine	Arts & Humanities Elective	
а.	Year 2 2nd Semester	Social Diversity	Purchasing & Cost Controls	Hospitality Facilities Design	Catering & Banquet Operations	Hospitality Elective	Culinary Arts Co-Op		

High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

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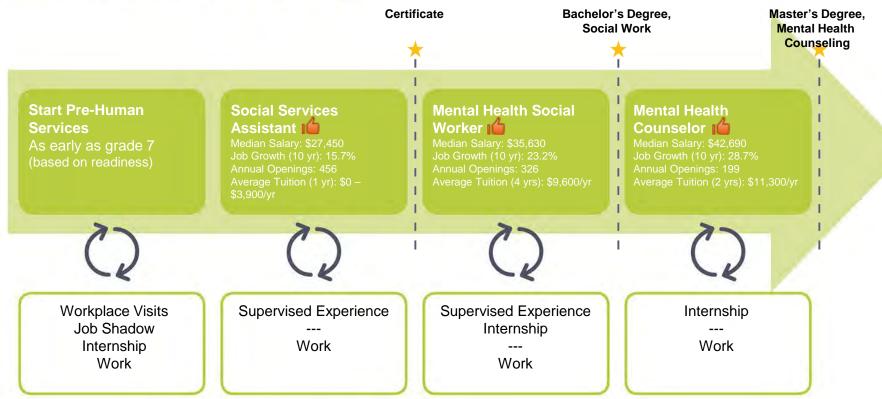
Course titles and sequences will vary between schools.







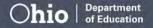




Preparing students for multiple options after high school:

gainful employment and/or postsecondary study.

Ohio In-demand Occupations









Secondary Pathway: **Human Services**

Postsecondary Program: Human and Social Services

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Introduction to Human Services		
Secondary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Health Science & Technology	World Languages	
Secol	11	English III	Algebra II	Chemistry	U.S. History	Psychology	Nutrition & Wellness	World Languages	
	12	English IV	Trigonometry/ Calculus	Anatomy & Physiology	U.S. Government	Medical Terminology	Mental Health		
>	Year 1 1st Semester	English Composition I	Principles of Social Work	Psychology I	Chemical Dependency I	Direct Practice Skills			
ondar	Year 1 2nd Semester	English Composition II	Sociology	Developmental Psychology	Case Management	Group Practice Skills	Social Welfare and Policy		
Postsecondary	Year 2 1st Semester	Fundamentals of Communication	College Algebra	Family Systems	Introduction to Ethics	Human Services Practicum I			
а.	Year 2 2nd Semester	Abnormal Psychology	Anatomy & Physiology	Chemical Dependency II	Human Services Practicum II	Human Services Capstone			

High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

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Course titles and sequences will vary between schools.

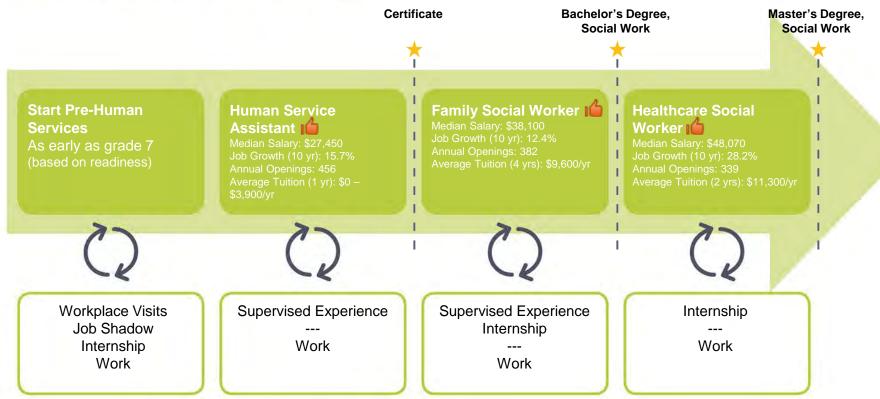
Ohio | Department of Education







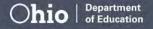
Ohio In-demand Occupations



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Preparing students for multiple options after high school:

gainful employment and/or postsecondary study.









Secondary Pathway: **Human Services**

Postsecondary Program: Human and Social Services

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Introduction to Human Services		
Secondary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Health Science & Technology	World Languages	
Secol	11	English III	Algebra II	Chemistry	U.S. History	Psychology	Nutrition & Wellness	World Languages	
	12	English IV	Trigonometry/ Calculus	Anatomy & Physiology	U.S. Government	Medical Terminology	Mental Health		
>	Year 1 1st Semester	English Composition I	Principles of Social Work	Psychology I	Chemical Dependency I	Direct Practice Skills			
ondar	Year 1 2nd Semester	English Composition II	Sociology	Developmental Psychology	Case Management	Group Practice Skills	Social Welfare and Policy		
Postsecondary	Year 2 1st Semester	Fundamentals of Communication	College Algebra	Family Systems	Introduction to Ethics	Human Services Practicum I			
а.	Year 2 2nd Semester	Abnormal Psychology	Anatomy & Physiology	Chemical Dependency II	Human Services Practicum II	Human Services Capstone			

High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

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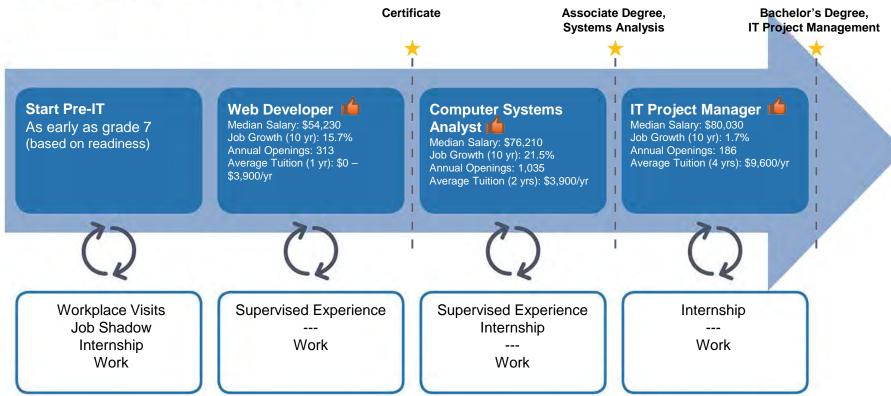
Course titles and sequences will vary between schools.

Ohio | Department of Education



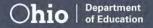






Preparing students for multiple options after high school:

Ohio In-demand Occupations gainful employment and/or postsecondary study.









Secondary Pathway: <u>Interactive Media</u> Postsecondary Program: <u>Interactive Media</u>

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Information Technology	Web Design	
Secondary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Design Techniques	Interactive Application Development	World Languages
Seco	11	English III	Algebra II	Chemistry	U.S. History	3D Techniques	World Languages		
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Video & Sound	IT Capstone		
>	Year 1 1st Semester	English	College Seminar	Biology	Principles of Interactive Design	Video and Sound Basics	Intro to Computer Design	HTML	
Postsecondary	Year 1 2nd Semester	Visual Communication	Storyboarding	Audio Production I	Branding	CSS	Media Graphics & Optimization	Intro to Humanities	
ostsec	Year 2 1st Semester	Flash I and II	Intro to Sociology	Audio Production II	JavaScript Fundamentals	Content Management & Integration	Statistics		
₽.	Year 2 2nd Semester	Advanced Flash III	Interactive Portfolio	Web Design Creation	Interactive Media Practicum	Creation- Encore			

High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

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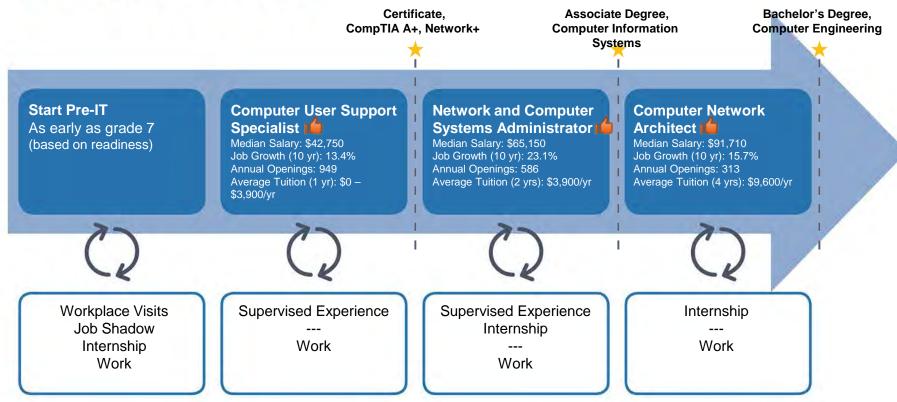
Course titles and sequences will vary between schools.

Ohio | Department of Education





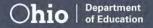




Preparing students for multiple options after high school:

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Ohio In-demand Occupations







Secondary Pathway: <u>Network Systems</u> Postsecondary Program: <u>Computer Networking</u>

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Information Technology	Networking	
Secondary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Network Operating Systems	Network Management	World Languages
Secol	11	English III	Algebra II	Chemistry	U.S. History	Network Security	World Languages		
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Routing & Switching			
>	Year 1 1st Semester	Operating Systems & Software	Computer Hardware Support	Cisco I: Networking Technologies	Networking Fundamentals				
Postsecondary	Year 1 2nd Semester	English	TCP/IP	Cisco II: Basic Router Technologies	Network Administration				
ostsec	Year 2 1st Semester	Intro to Business	Technical Writing	Cisco III: LAN Switching & Wireless	Math	Natural Science Elective			
Δ.	Year 2 2nd Semester	Professional Success Strategy	Networking Capstone	Cisco IV: WAN Technologies	Arts & Humanities Elective	Social Science Elective			

High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

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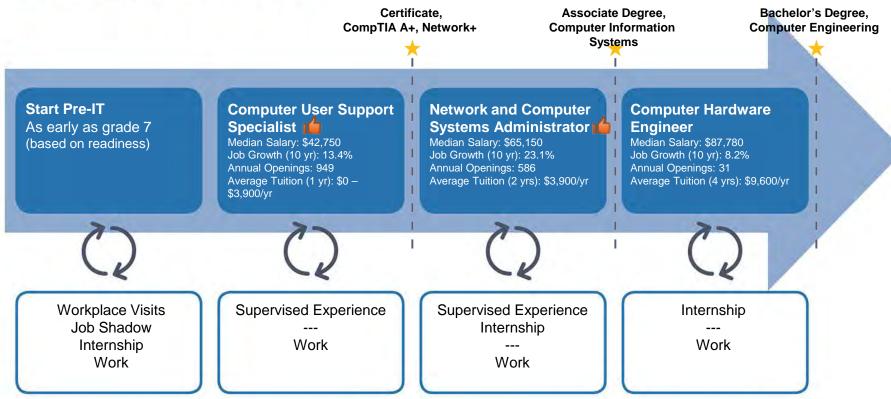
Course titles and sequences will vary between schools.







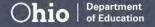




Preparing students for multiple options after high school:

Ohio In-demand Occupations

gainful employment and/or postsecondary study.









Secondary Pathway: <u>Network Systems</u> Postsecondary Program: <u>Computer Networking</u>

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Information Technology	Networking	
Secondary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Network Operating Systems	Network Management	World Languages
Secol	11	English III	Algebra II	Chemistry	U.S. History	Network Security	World Languages		
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Routing & Switching			
>	Year 1 1st Semester	Operating Systems & Software	Computer Hardware Support	Cisco I: Networking Technologies	Networking Fundamentals				
Postsecondary	Year 1 2nd Semester	English	TCP/IP	Cisco II: Basic Router Technologies	Network Administration				
ostsec	Year 2 1st Semester	Intro to Business	Technical Writing	Cisco III: LAN Switching & Wireless	Math	Natural Science Elective			
Δ.	Year 2 2nd Semester	Professional Success Strategy	Networking Capstone	Cisco IV: WAN Technologies	Arts & Humanities Elective	Social Science Elective			

High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

Visit education.ohio.gov/CareerConnections for reference information.

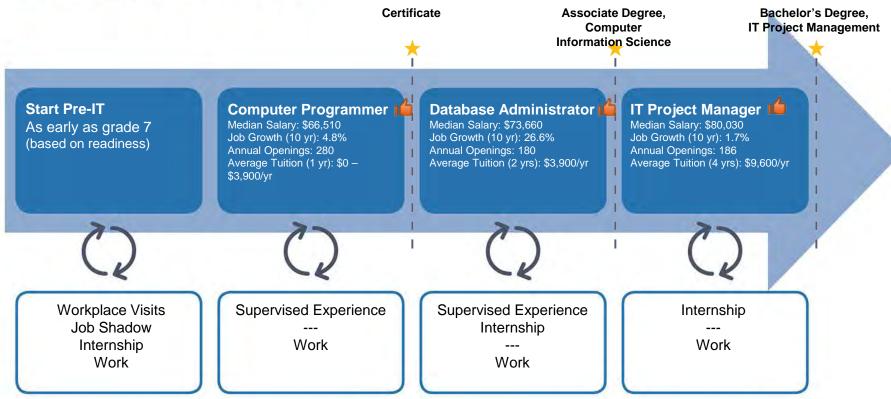
Course titles and sequences will vary between schools.







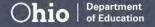




Preparing students for multiple options after high school:

Ohio In-demand Occupations

gainful employment and/or postsecondary study.









Secondary Pathway: Programming and Software Development

Postsecondary Program: **Programming and Software Development**

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Information Technology	Programming	
Secondary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Object Oriented Programming	Visual Programming	World Languages
Secol	11	English III	Algebra II	Chemistry	U.S. History	Systems Analysis & Design	World Languages		
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Database Applications Development			
Postsecondary	Year 1 1st Semester	English	College Seminar	Intro to Business	Computer Applications	Computer Programming	Operating Systems & Security		
	Year 1 2nd Semester	Technical Writing	Math for Information Technology	Internet Programming I	Database	Advanced C++			
	Year 2 1st Semester	College Algebra	Visual Basic I	Internet Programming II	Systems Analysis & Design	Natural Science Elective			
	Year 2 2nd Semester	Communication	Visual Basic II	Java Programming	Arts & Humanities Elective	Social Science Elective	IT Capstone		

High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

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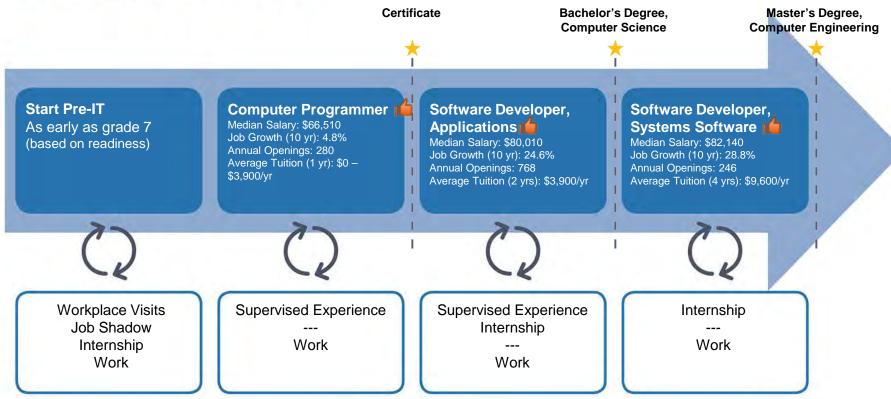
Course titles and sequences will vary between schools.

Ohio | Department of Education





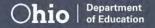




Preparing students for multiple options after high school:

Ohio In-demand Occupations

gainful employment and/or postsecondary study.









Secondary Pathway: Programming and Software Development

Postsecondary Program: **Programming and Software Development**

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Information Technology	Programming	
Secondary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Object Oriented Programming	Visual Programming	World Languages
Secol	11	English III	Algebra II	Chemistry	U.S. History	Systems Analysis & Design	World Languages		
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Database Applications Development			
Postsecondary	Year 1 1st Semester	English	College Seminar	Intro to Business	Computer Applications	Computer Programming	Operating Systems & Security		
	Year 1 2nd Semester	Technical Writing	Math for Information Technology	Internet Programming I	Database	Advanced C++			
	Year 2 1st Semester	College Algebra	Visual Basic I	Internet Programming II	Systems Analysis & Design	Natural Science Elective			
	Year 2 2nd Semester	Communication	Visual Basic II	Java Programming	Arts & Humanities Elective	Social Science Elective	IT Capstone		

High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

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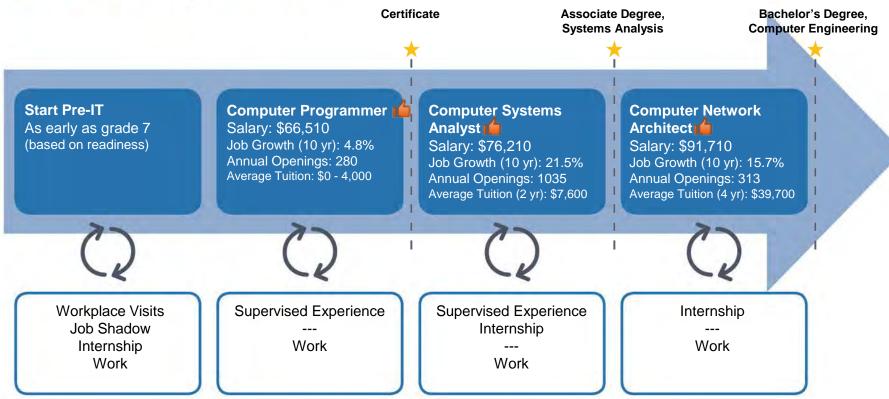
Course titles and sequences will vary between schools.

Ohio | Department of Education









Preparing students for multiple options after high school:

gainful employment and/or postsecondary study.









Secondary Pathway: Programming and Software Development

Postsecondary Program: Programming and Software Development

Courses with Secondary and Post-Secondary Credits

	7 8	English	Algebra I	Science	Social Studies	Fine Arts	Information Technology	Programming	
Secondary	9 10	English	Geometry	Biology	US History	Health (.5) PE (.5)	Object Oriented Programming	Visual Programming	
	11	English	Algebra II	Physics	US Government & Economics	Foreign Language	Systems Analysis and Design		
	12	English	Trigonometry	Chemistry	Psychology	Foreign Language	Database Applications Development		
Post-Secondary	Year 1 1st Semester	English	College Seminar	Intro to Business	Computer Applications	Computer Programming	Operating Systems & Security		
	Year 1 2nd Semester	Technical Writing	Math for Information Technology	Internet Programming I	Database	Advanced C++			
	Year 2 1st Semester	College Algebra	Visual Basic I	Internet Programming II	Systems Analysis & Design	Natural Science Elective			
	Year 2 2nd Semester	Communication	Visual Basic II	Java Programming	Arts & Humanities Elective	Social Science Elective	IT Capstone		

High School CTE Program Courses

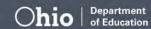
High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommend Electives

Visit education.ohio.gov/CareerConnections for reference information

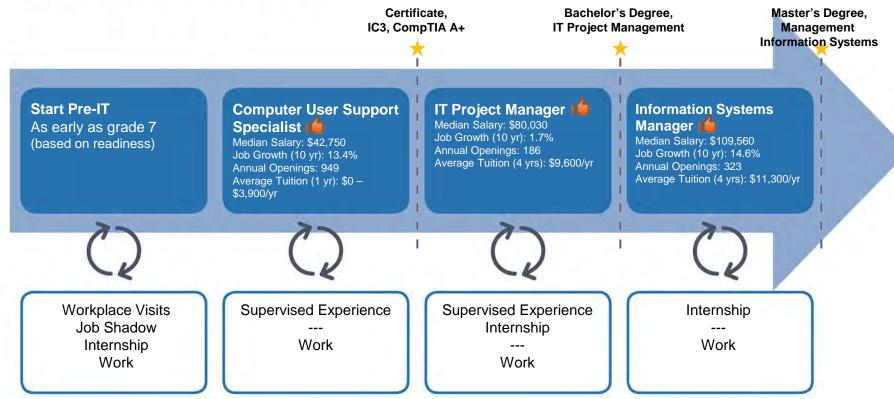
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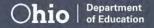




Preparing students for multiple options after high school:

gainful employment and/or postsecondary study.

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Ohio In-demand Occupations







Secondary Pathway: Information Services and Support

Postsecondary Program: Computer Science

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Information Technology	Networking	
Secondary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Network Operating Systems	Network Management	World Languages
Secol	11	English III	Algebra II	Chemistry	U.S. History	Network Security	World Languages		
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Routing & Switching			
_	Year 1 1st Semester	English	College Algebra	College Seminar	Computer Applications	Programming Logic	Humanities Elective		
ondary		English Business Communication	•		· ·			Systems Analysis	
Postsecondary	1st Semester Year 1	Business	Algebra Operating	Seminar Networking	Applications Object Oriented	Logic	Elective		

High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

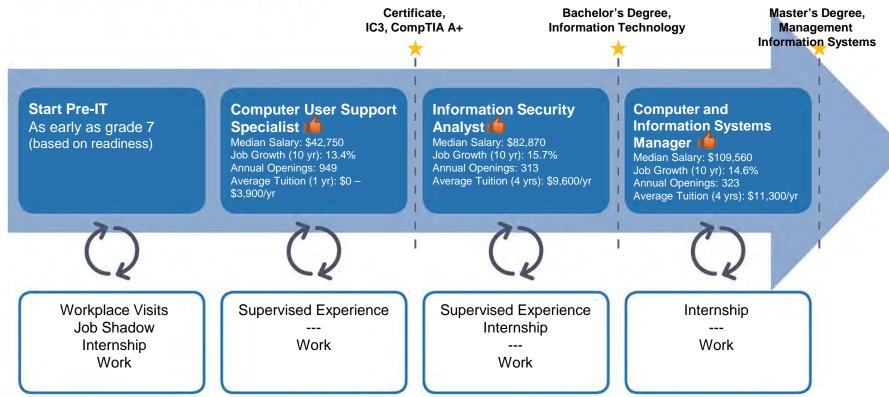
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Preparing students for multiple options after high school:

Ohio In-demand Occupations

gainful employment and/or postsecondary study.









Secondary Pathway: Information Services and Support

Postsecondary Program: Computer Science

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Information Technology	Networking	
Secondary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Network Operating Systems	Network Management	World Languages
Secol	11	English III	Algebra II	Chemistry	U.S. History	Network Security	World Languages		
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Routing & Switching			
_	Year 1 1st Semester	English	College Algebra	College Seminar	Computer Applications	Programming Logic	Humanities Elective		
ondary		English Business Communication	•		· ·			Systems Analysis	
Postsecondary	1st Semester Year 1	Business	Algebra Operating	Seminar Networking	Applications Object Oriented	Logic	Elective		

High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

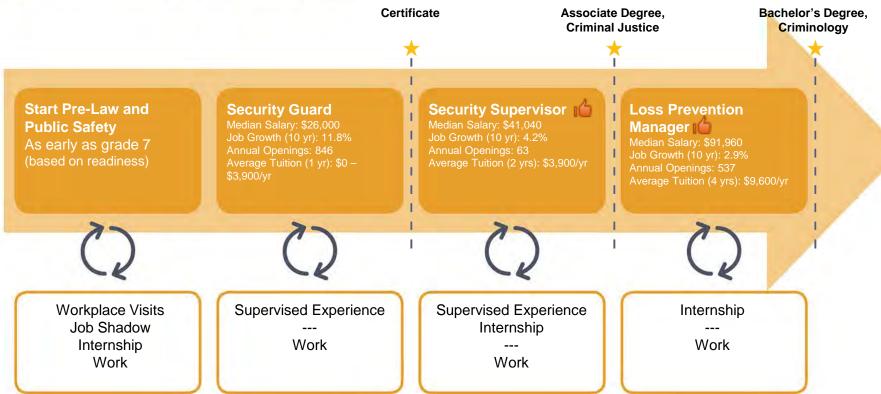
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Ohio In-demand Occupations









Secondary Pathway: Criminal Justice

Postsecondary Program: Criminal Justice

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	American Criminal Justice System		
ndary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Security & Protective Services	World Languages	
Secondary	11	English III	Algebra II	Chemistry	U.S. History	Police Work & Practice in Public Safety	Investigations & Forensics	World Languages	
	12	English IV	Trigonometry/ Calculus	Psychology	U.S. Government	Correctional System & Services	Homeland Security	Law & Public Safety Capstone	
>	Year 1 1st Semester	English Composition I	College Algebra	Psychology	Criminal Justice	Ethics in Criminal Justice	Basic Investigations		
ondar	Year 1 2nd Semester	English Composition II	Basic Chemistry	Abnormal Psychology	Public Administration	Constitutional Law & Courts	Criminal Law & Procedure		
Postsecondary	Year 2 1st Semester	Communication	Intro to Sociology	Human Diversity	Criminology	Correctional System	Victimology		
_	Year 2 2nd Semester	Homeland Security	Correctional Management	Juvenile Process	Probation & Parole	Current Issues in Criminal Justice	Criminal Justice Practicum		

High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

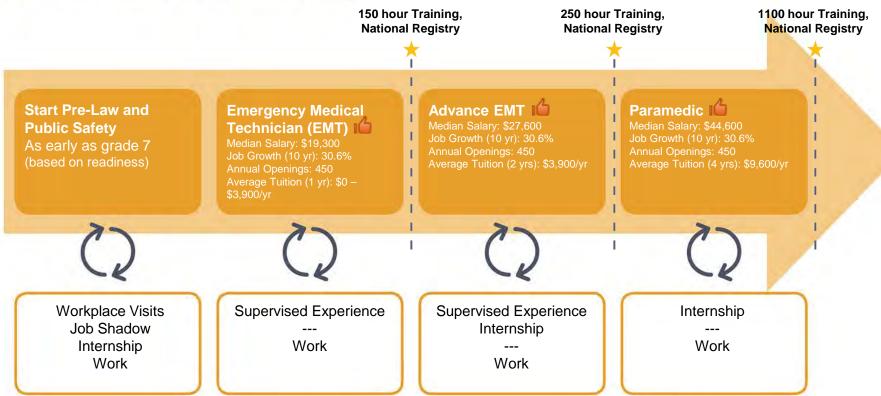
 ${\it Visit\ education.ohio.gov/Career Connections\ for\ reference\ information.}$

Course titles and sequences will vary between schools.

Ohio MEANS Jobs



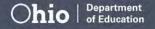




Preparing students for multiple options after high school:

gainful employment and/or postsecondary study.

Ohio In-demand Occupations









Secondary Pathway: Firefighting and Emergency Medical Services

Postsecondary Program: **Emergency Medical Services**

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Foundations of Firefighting & EMT		
Secondary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Medical Terminology	World Languages	
Secol	11	English III	Algebra II	Chemistry	U.S. History	Principles of Allied Health	Patient Centered Care	World Languages	
	12	English IV	Trigonometry/ Calculus	Anatomy & Physiology	U.S. Government	Patho- physiology	Pharmacology	EMT	
>	Year 1 1st Semester	College Seminar	Human Anatomy & Physiology	Paramedic I					
Postsecondary	Year 1 2nd Semester	Algebra	Legal Issues for Emergency Services	Paramedic II	English	Technical Elective			
ostsec	Year 2 1st Semester	Interpersonal Skills	Spanish for Law Enforcement	Paramedic III	Computer Applications				
4	Year 2 2nd Semester	Psychology	Chemistry	EMS Management	Disaster Planning				

High School Career-Technical Education Program Courses

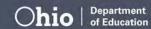
High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

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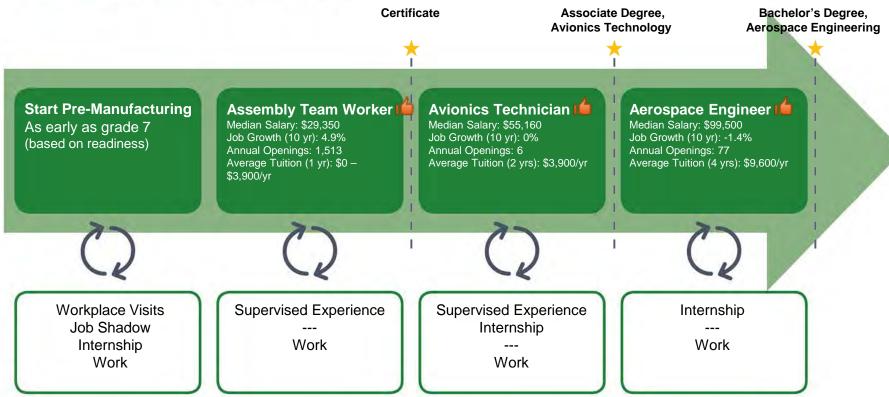
Course titles and sequences will vary between schools.











Preparing students for multiple options after high school:

gainful employment and/or postsecondary study.









Secondary Pathway: Manufacturing Operations

Postsecondary Program: **Avionics Technology**

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Pre- Engineering Technologies		
ndary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Manufacturing Operations	World Languages	
Secondary	11	English III	Algebra II	Chemistry	U.S. History	CNC Technology	Machine Tools	World Languages	
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Computer Integrated Manufacturing	Robotics		
>	Year 1 1st Semester	English Composition	Intro to Aviation	Aircraft Weight & Balance	Aircraft Materials	AMT Regulation & Inspection	Ground Operation & Servicing	Manufacturing Operations	
Postsecondary	Year 1 2nd Semester	College Algebra	AMT Electricity	Aircraft Metallic Structures	Aircraft Electrical Systems	Aircraft Fuel Systems	Aircraft Non- Metallic Structures	Communication & Navigation Systems	
ostsec	Year 2 1st Semester	Physics	Turbine Engine Maintenance	Reciprocating Engine Maintenance I	Machine Tools	Aircraft Environmental Controls	Landing Gear & Fluid Power		
<u>a.</u>	Year 2 2nd Semester	Ethics	Powerplant Inspection	Reciprocating Engine Maintenance II	Propellers	Hazardous Materials Maintenance	Aircraft Inspection		

High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

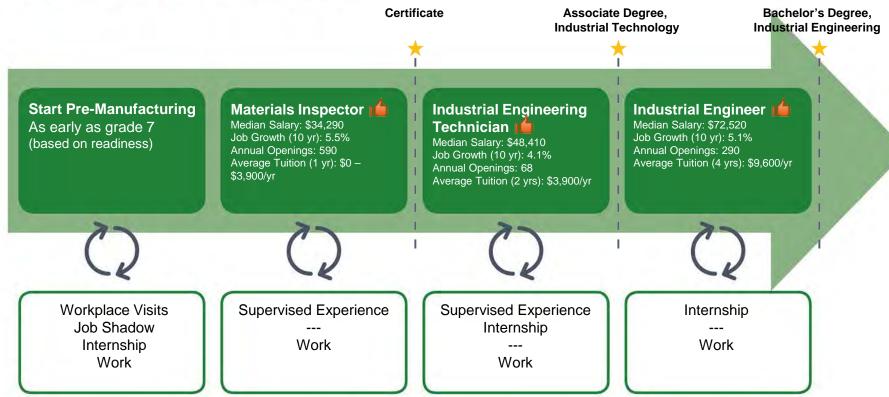
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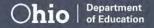




Preparing students for multiple options after high school:

Ohio In-demand Occupations

gainful employment and/or postsecondary study.









Secondary Pathway: Manufacturing Operations

Postsecondary Program: Industrial Technology

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Pre- Engineering Technologies		
Secondary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Manufacturing Operations	World Languages	
Secol	11	English III	Algebra II	Chemistry	U.S. History	Engineering Principles	Machine Tools	World Languages	
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Computer Integrated Manufacturing	Mechanisms & Drives		
>	Year 1 1st Semester	Computer- Aided Design	Industrial Safety	Electrical Systems	Mechanical Maintenance	Introduction to Engineering Technology	Technical Math		
ondar	Year 1 2nd Semester	Employability Skills	Hydraulics & Pneumatics	Programmable Logic Control	Dimensional Metrology	Software Applications	Motor and Motor Controls		
Postsecondary	Year 2 1st Semester	English	Hydraulic Trouble- shooting	Electrical Trouble- shooting	Electrical Distribution	Automated Systems			
4	Year 2 2nd Semester	Business Communication	Small Group Communication	Micro- economics	Industrial Machine Maintenance	Industrial Technology Projects	Humanities Elective		

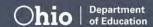
High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

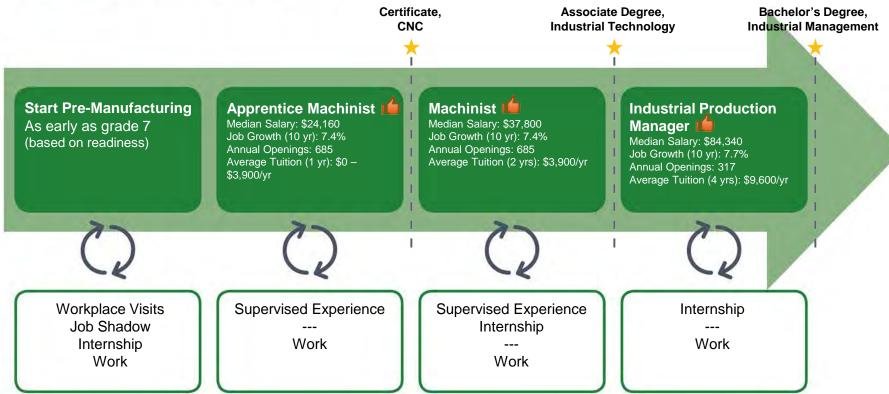
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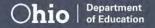




Preparing students for multiple options after high school:

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Ohio In-demand Occupations







Secondary Pathway: Manufacturing Operations

Postsecondary Program: Industrial Technology

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Pre- Engineering Technologies		
ndary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Manufacturing Operations	World Languages	
Secondary	11	English III	Algebra II	Chemistry	U.S. History	Machine Tools	Mechanisms and Drives	World Languages	
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Computer Integrated Manufacturing	Machining with Industrial Lathes (CNC)		
>	Year 1 1st Semester	English	Technical Math	PLC I	AC/DC Electrical				
ondar	Year 1 2nd Semester	OSHA Safety & Health	Industrial Maintenance	PLC II	Digital Electronics	Mechatronics			
Postsecondary	Year 2 1st Semester	Communication	Quality Processes	PLC III	Fluid Power	Leadership			
Ф.	Year 2 2nd Semester	Financial Management	Management	Applied Electricity	Automation (Robotics)	Physics			

High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

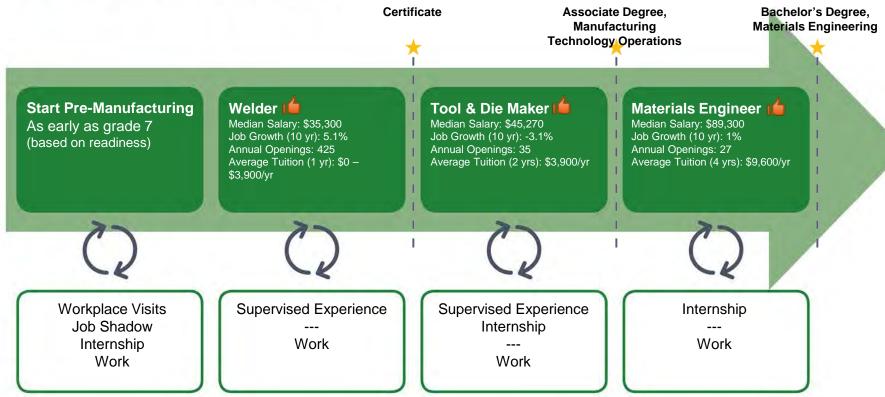
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Preparing students for multiple options after high school:

gainful employment and/or postsecondary study.

| Ohio In-demand Occupations









Secondary Pathway: Manufacturing Operations

Postsecondary Program: Manufacturing Technology Operations Management

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Pre- Engineering Technologies		
Secondary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Manufacturing Operations	Welding Technologies	World Languages
Secol	11	English III	Algebra II	Chemistry	U.S. History	Gas Metal Arc Welding	Shielded Cored Arc Welding	World Languages	
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Flux Cored Arc Welding	Gas Tungsten Arc Welding		
>	Year 1 1st Semester	English Composition	College Algebra	Engineering Design	Manufacturing Operations	Welding	Engineering Technologies		
condary		•	•		•	Welding Computer Aided Manufacturing I			
Postsecondary	1st Semester Year 1	Composition	Algebra Financial	Design Jig & Fixture	Operations Advanced	Computer Aided			

High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

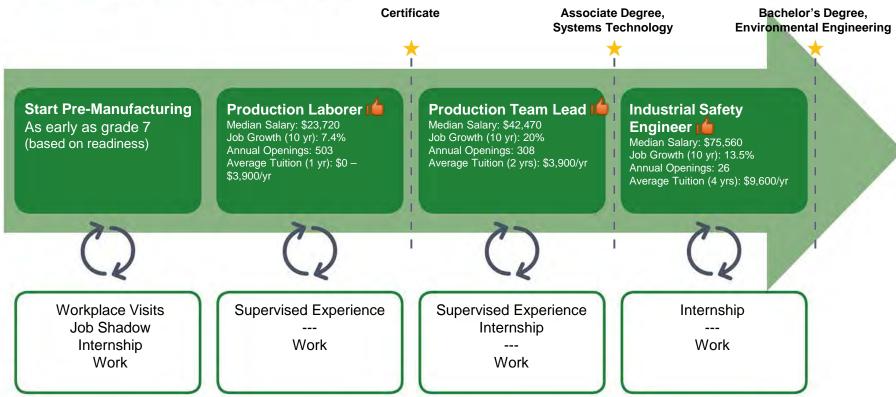
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Preparing students for multiple options after high school:

gainful employment and/or postsecondary study.

March 10 Coupations









Secondary Pathway: Manufacturing Operations Postsecondar

Postsecondary Program: **Systems Technology**

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Pre- Engineering Technologies		
ndary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Manufacturing Operations	World Languages	
Secondary	11	English III	Algebra II	Chemistry	U.S. History	CNC Technology	Machine Tools	World Languages	
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Computer Integrated Manufacturing	Robotics		
	Year 1 1st Semester	English Composition	College Algebra	Computer Applications	Environmental Health & Safety	Operations Management I	Print Reading		
>			Algebia	Applications	nealli & Salety	Management	& Sketching		
condary	Year 1 2nd Semester	Technical Writing	Statistics	Quality Management Systems	Manufacturing Processes	Operations Management II	Human Relations in the Workplace		
Postsecondary		Technical		Quality Management	Manufacturing	Operations	Human Relations in the		

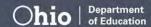
High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

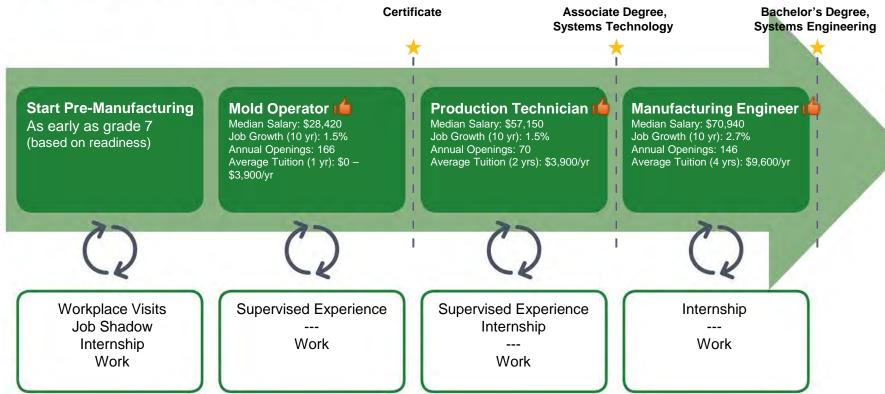
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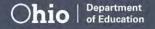




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Ohio In-demand Occupations







Secondary Pathway: Manufacturing Operations

Postsecondary Program: Systems Technology

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Pre- Engineering Technologies		
ndary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Manufacturing Operations	World Languages	
Secondary	11	English III	Algebra II	Chemistry	U.S. History	CNC Technology	Machine Tools	World Languages	
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Computer Integrated Manufacturing	Robotics		
>	Year 1 1st Semester	English Composition	College Algebra	Computer Applications	Environmental Health & Safety	Operations Management I	Print Reading & Sketching		
condary		•	•	•		The state of the s	•		
Postsecondary	1st Semester Year 1	Composition Technical	Algebra	Applications Quality Management	Health & Safety Manufacturing	Management I Operations	& Sketching Human Relations in the		

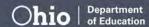
High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

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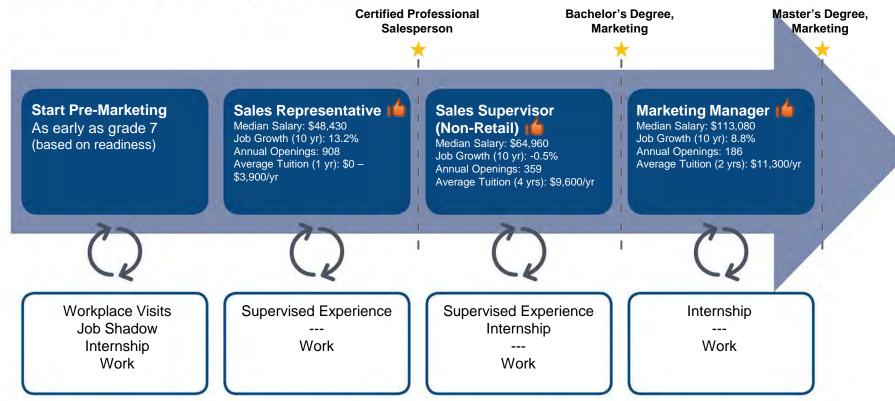








Ohio In-demand Occupations



Provided by middle schools, high schools, employers, Ohio Tech Centers, and colleges.

Preparing students for multiple options after high school:

gainful employment and/or postsecondary study.









Secondary Pathway: Marketing Management

Postsecondary Program: Marketing

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Fundamentals of Business & Admin.		
ndary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Business Foundations	Marketing Principles	World Languages
Secondary	11	English III	Algebra II	Chemistry	U.S. History	Marketing Applications	Professional & Technical Sales	World Languages	
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Marketing Research	Marketing Capstone		
>	Year 1 1st Semester	English	Statistics	Retailing	Micro- economics	Digital Media Preparation	College Seminar		
⊂,									
conda	Year 1 2nd Semester	Marketing Principles	Financial Accounting	Supply Chain Mgmt Principles	Branding	Customer Service & Sales	Physics	American History	
Postsecondary		0		Mgmt	Branding Marketing Info & Consumer Analysis	Service &	Physics		

High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

 ${\it Visit\ education.ohio.gov/Career Connections\ for\ reference\ information.}$

Course titles and sequences will vary between schools.

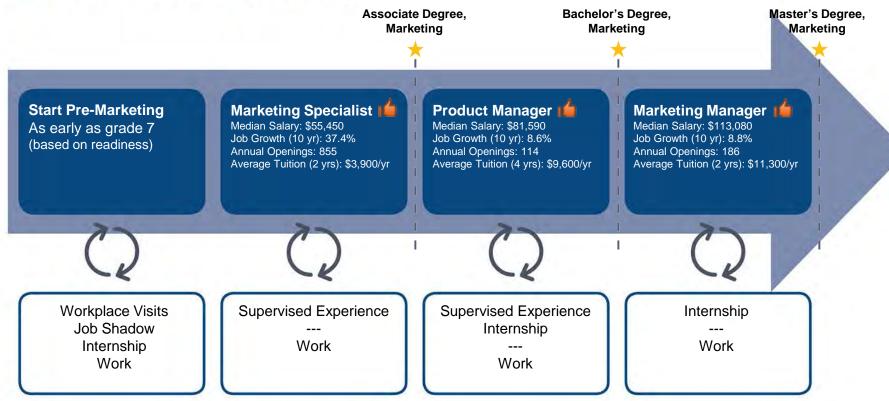








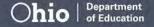
Ohio In-demand Occupations



Provided by middle schools, high schools, employers, Ohio Tech Centers, and colleges.

Preparing students for multiple options after high school:

gainful employment and/or postsecondary study.









Secondary Pathway: Marketing Management

Postsecondary Program: Marketing

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Fundamentals of Business & Admin.		
ndary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Business Foundations	Marketing Principles	World Languages
Secondary	11	English III	Algebra II	Chemistry	U.S. History	Marketing Applications	Professional & Technical Sales	World Languages	
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Marketing Research	Marketing Capstone		
>	Year 1 1st Semester	English	Statistics	Retailing	Micro- economics	Digital Media Preparation	College Seminar		
⊂,									
conda	Year 1 2nd Semester	Marketing Principles	Financial Accounting	Supply Chain Mgmt Principles	Branding	Customer Service & Sales	Physics	American History	
Postsecondary		0		Mgmt	Branding Marketing Info & Consumer Analysis	Service &	Physics		

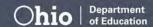
High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

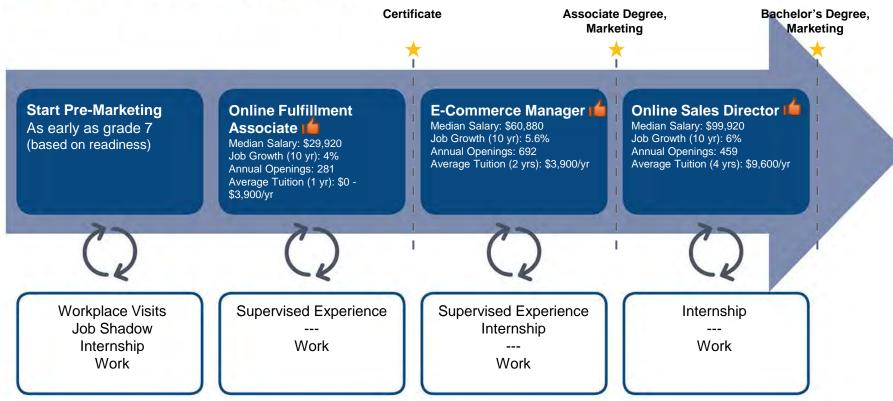
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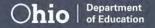


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Ohio In-demand Occupations









Secondary Pathway: Marketing Management

Postsecondary Program: Marketing

An Example of Courses with Secondary and Postsecondary Credits

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Secondary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Marketing Principles	Digital Marketing & Management	World Languages
Secol	11	English III	Algebra II	Chemistry	U.S. History	Marketing Applications	Professional & Technical Sales	World Languages	
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Merchandising & Buying	Strategic Entre- preneurship		
>	Year 1 1st Semester	English	Statistics	Retailing	Micro- economics	Digital Media Preparation	College Seminar		
<u>e</u> .									
ond	Year 1 2nd Semester	Marketing Principles	Financial Accounting	Supply Chain Mgmt Principles	Branding	Customer Service & Sales	Physics	American History	
Postsecondary		•		Mgmt	Branding Marketing Info & Consumer Analysis	Service &	Physics		

High School Career-Technical Education Program Courses

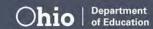
High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

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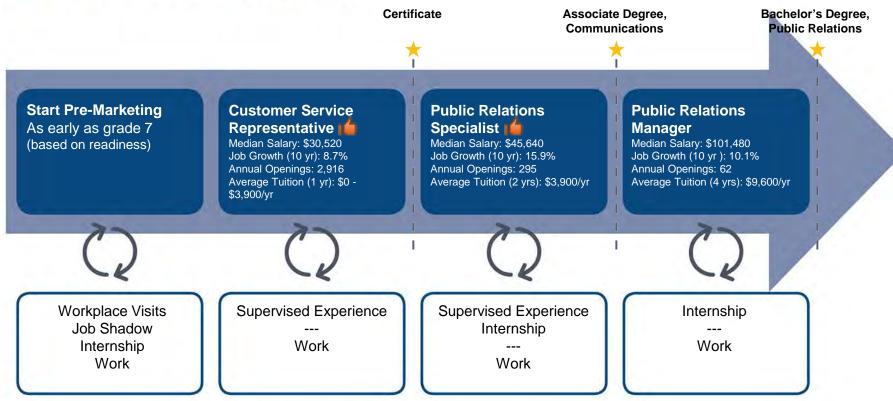
Course titles and sequences will vary between schools.









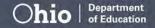


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Ohio In-demand Occupations









Secondary Pathway: Marketing Management

Postsecondary Program: Marketing

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Secondary	11	English III	Algebra II	Chemistry	U.S. History	Marketing Applications	Professional & Technical Sales	World Languages	
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Marketing Research	Marketing Capstone		
_	Year 1 1st Semester	English	Statistics	Retailing	Micro- economics	Digital Media Preparation	College Seminar		
Postsecondary	Year 1 2nd Semester	Marketing Principles	Financial Accounting	Supply Chain Mgmt Principles	Branding	Customer Service & Sales	Physics	American History	
ostsec	Year 2 1st Semester	Web & Electronic Marketing	Advertising & Promotion	Business-to- Business Marketing	Marketing Info & Consumer Analysis	Managerial Accounting			
<u>a.</u>	Year 2 2nd Semester	Global Marketing	Project Management Principles	Direct & Database Marketing	Marketing Seminar	Marketing Practicum	Fundamentals of Interactive Media		

High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

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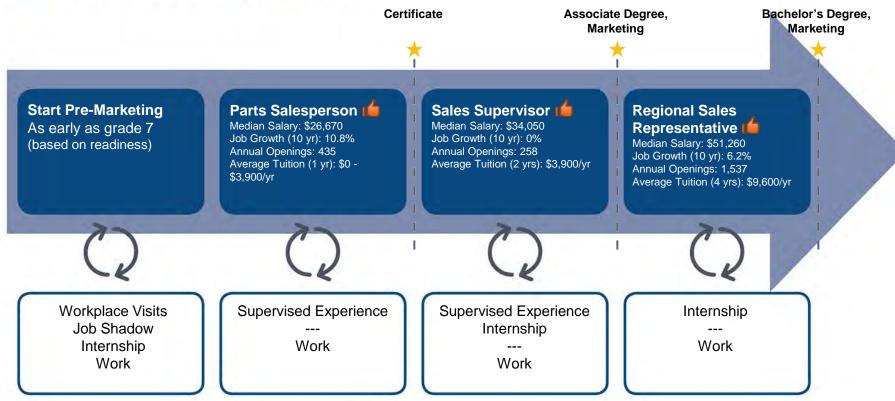








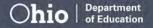
Ohio In-demand Occupations



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Preparing students for multiple options after high school:

gainful employment and/or postsecondary study.









Secondary Pathway: Marketing Management

Postsecondary Program: Marketing

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Business Foundations		
Secondary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Marketing Principles	Digital Marketing & Management	World Languages
Secol	11	English III	Algebra II	Chemistry	U.S. History	Marketing Applications	Professional & Technical Sales	World Languages	
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Merchandising & Buying	Strategic Entre- preneurship		
_	Year 1 1st Semester	English Composition	Statistics	Retailing	Micro- economics	Digital Media Preparation	College Seminar		
ondary			Statistics Financial Accounting	Retailing Supply Chain Mgmt Principles		•	•	American History	
Postsecondary	1st Semester Year 1	Composition Marketing	Financial	Supply Chain Mgmt	economics	Preparation Customer Service &	Seminar		

High School Career-Technical Education Program Courses

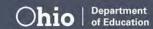
High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

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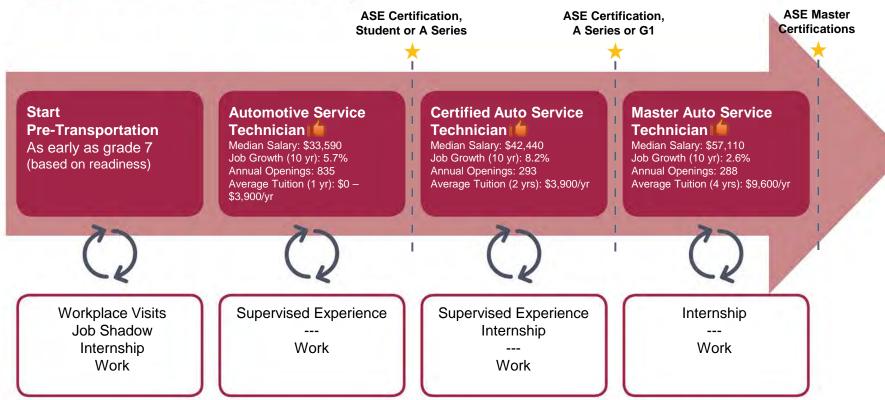
Course titles and sequences will vary between schools.







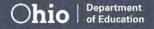




Preparing students for multiple options after high school:

Ohio In-demand Occupations

gainful employment and/or postsecondary study.









Secondary Pathway: <u>Automotive Technology</u> Postsecondary Program: <u>Automotive Technology</u>

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts			
Secondary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Ground Transportation Maintenance	Breaking, Suspension, & Steering	World Languages
Seco	11	English III	Algebra II	Chemistry	U.S. History	Engine & Power Train	HVAC	World Languages	
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Electrical/ Electronic	Engine Performance	Transportation Capstone	
	Year 1					Intro to		Automotive	
>	1st Semester	English	Computer Applications	Shop Safety & Procedures	Numerical Applications	Automotive Service	Transmission & Drivetrain	Electrical Fundamentals	
condary		English Math	•			Automotive		Electrical	
Postsecondary	1st Semester Year 1		Applications Humanities	Procedures Automotive	Applications Alignment, Steering &	Automotive Service Braking	Drivetrain Auto Field	Electrical	

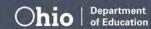
High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

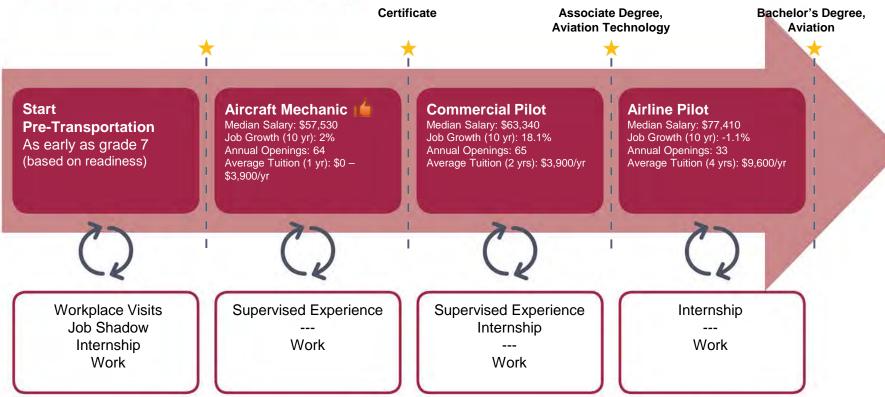
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Preparing students for multiple options after high school:

gainful employment and/or postsecondary study.

| Ohio In-demand Occupations









Secondary Pathway: <u>Air Transportation</u> Postsecondary Program: <u>Aviation Technology</u>

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts			
ndary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Aviation	World Languages	
Secondary	11	English III	Algebra II	Chemistry	U.S. History	Aviation Maintenance	Airframe Systems	World Languages	
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Aviation Meteorology	Airport Management	Air Traffic Control	
>	Year 1 1st Semester	English Composition	College Algebra	Orientation to Aviation	Introduction to Airline Operations	Aviation Meteorology	Computer Applications		
ondar	Year 1 2nd Semester	Public Speaking	Flight Simulator Instruction	Pilot Ground School	Instrument Ground School	Instrument Flight Lab	Private Pilot Flight Lab		
	ν •		Flight Instructor	Aerodynamics	Commercial	Aircraft	Blind Flying	Flight Instructor	
Postsecondary	Year 2 1st Semester	Trigonometry	Flight Lab	& Flight Mechanics	Pilot Ground	Accident Investigation	Hazards	Ground	

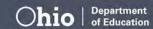
High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

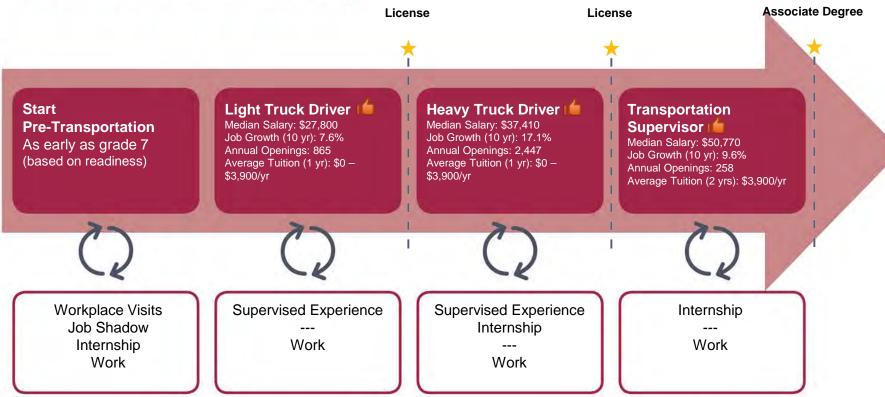
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Preparing students for multiple options after high school:

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Secondary Pathway: **Ground Transportation** Postsecondary Program: **Diesel Technology**

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts			
Secondary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Ground Transportation Maintenance	Braking, Suspension & Steering	World Languages
Secol	11	English III	Algebra II	Chemistry	U.S. History	Engine & Power Train	Truck Brake, Suspension & Steering Sys.	World Languages	
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Truck Diesel Engines	Engine Performance	Ground Transportation HVAC	
>	Year 1 1st Semester	Personal Finance	Basic Electrical	Preventive Maintenance	Heavy Truck Drive Trains	Industrial & Engineering Technology			
ondar	Year 1 2nd Semester	Employability Skills	Industrial Calculations	Hydraulic Theory & Operation	Fundamentals of Engines	Truck Steering & Suspension	Welding Processes	Truck Brake Systems	
Postsecondary	Year 2 1st Semester	English Composition	Computer Concepts & Applications	Advanced Electrical & Electronics	Heavy Truck HVAC	Social Science Elective			
<u>a</u>	Year 2	Interpersonal	Business	Customer	Engine	Heavy Truck Automatic			

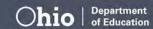
High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

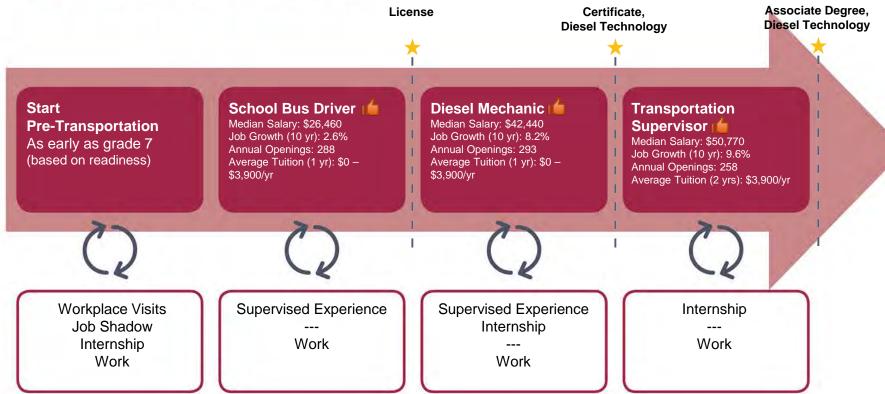
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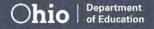




Preparing students for multiple options after high school:

gainful employment and/or postsecondary study.

Marie In-demand Occupations









Secondary Pathway: **Ground Transportation** Postsecondary Program: **Diesel Technology**

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts			
Secondary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Ground Transportation Maintenance	Braking, Suspension & Steering	World Languages
Secol	11	English III	Algebra II	Chemistry	U.S. History	Engine & Power Train	Truck Brake, Suspension & Steering Sys.	World Languages	
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Truck Diesel Engines	Engine Performance	Ground Transportation HVAC	
>	Year 1 1st Semester	Personal Finance	Basic Electrical	Preventive Maintenance	Heavy Truck Drive Trains	Industrial & Engineering Technology			
ondar	Year 1 2nd Semester	Employability Skills	Industrial Calculations	Hydraulic Theory & Operation	Fundamentals of Engines	Truck Steering & Suspension	Welding Processes	Truck Brake Systems	
Postsecondary	Year 2 1st Semester	English Composition	Computer Concepts & Applications	Advanced Electrical & Electronics	Heavy Truck HVAC	Social Science Elective			
<u>a</u>	Year 2	Interpersonal	Business	Customer	Engine	Heavy Truck Automatic			

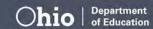
High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

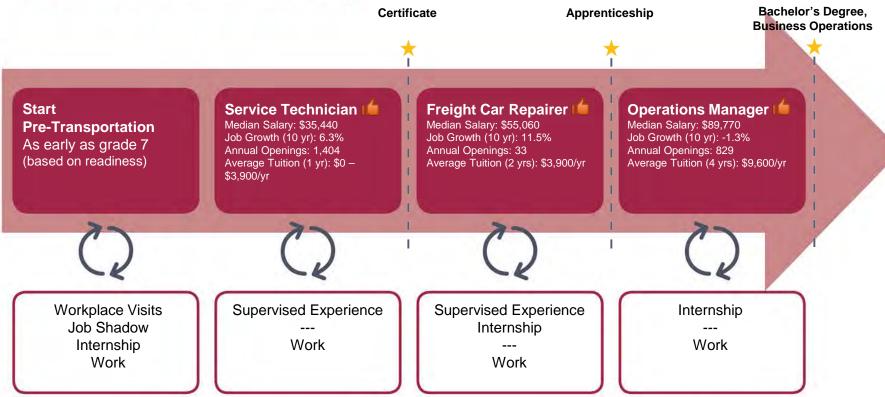
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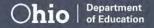




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Ohio In-demand Occupations







Secondary Pathway: <u>Automotive Technology</u> Postsecondary Program: <u>Heavy Equipment Technology</u>

An Example of Courses with Secondary and Postsecondary Credits

	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts			
Secondary	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Ground Transportation Maintenance	Breaking, Suspension & Steering	World Languages
Seco	11	English III	Algebra II	Chemistry	U.S. History	Engine & Power Train	HVAC	World Languages	
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Electrical/ Electronic Systems	Engine Performance	Transportation Capstone	
>	Year 1 1st Semester	English Composition	College Algebra	Trouble Shooting Strategies	HEQT Maintenance Fundamentals	HEQT Electronics			
ondar	Year 1 2nd Semester	Industrial Writing	Fluid Power Fundamentals	Physics	Planned Maintenance Systems	HEQT Electrical Systems			
Postsecondary	Year 2 1st Semester	Humanities Elective	Diesel Fuel Systems	HEQT Brakes- Suspension Systems	HEQT Engine Technology	Transport Refrigeration Systems			
—	Year 2 2nd Semester	Social Science Elective	Intro to Welding	HEQT Auto Transmissions	Power Transfer Technology	Internship			

High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

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