

## CTE Course Crosswalk

TAC Chapter 127. Career and Technical Education			
Subchapter A. Middle School			
2010		2017	
Exploring Careers		College and Career Readiness	
Career Portals		Investigating Careers	
Subchapter B. High School			
Problems and Solutions	.5 - 1	Project-Based Research	1
Applied Mathematics for Technical Professionals (Innovative course)	1	Applied Mathematics for Technical Professionals	1
Career Preparation I	2 - 3	Career Preparation I	2
Career Preparation II	2 - 3	Career Preparation II	2
		Extended Career Preparation*	1
*This course must be taken concurrently with Career Preparation I or Career Preparation II and may not be taken as a stand-alone course.			
TAC Chapter 130. Career and Technical Education			
Subchapter A. Agriculture, Food, and Natural Resources			
2010		2017	
Credits			Credits
Principles of Agriculture, Food, and Natural Resources	.5 - 1	Principles of Agriculture, Food, and Natural Resources	1
Livestock Production	.5 - 1	Livestock Production	1
Small Animal Management	.5 - 1	Small Animal Management	.5
Equine Science	.5 - 1	Equine Science	.5
Veterinary Medical Applications	1	Veterinary Medical Applications	1
Advanced Animal Science	1	Advanced Animal Science	1
Professional Standards in Agribusiness	.5 - 1	Professional Standards in Agribusiness	.5
Agribusiness Management and Marketing	.5 - 1	Agribusiness Management and Marketing	1
Mathematical Applications in Agriculture, Food, and Natural Resources	1	Mathematical Applications in Agriculture, Food, and Natural Resources	1
Energy and Natural Resources Technology	.5 - 1	Energy and Natural Resource Technology	1
Advanced Environmental Technology	1	Advanced Energy and Natural Resource Technology	1
Principles of Oil and Gas Production (Innovative course)	.5 - 1	Oil and Gas Production I	1
Oil and Gas Production I (Innovative courses)	1 - 2		
Oil and Gas Production II (Innovative course)	1 - 3	Oil and Gas Production II	1
Food Technology and Safety	.5 - 1	Food Technology and Safety	1
Food Processing	1 - 2	Food Processing	1
Wildlife, Fisheries and Ecology Management	.5 - 1	Wildlife, Fisheries and Ecology Management	1
Range Ecology and Management	.5 - 1	Range Ecology and Management	1
Forestry and Woodland Ecosystems	.5 - 1	Forestry and Woodland Ecosystems	1

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Principles and Elements of Floral Design	1	Floral Design	1
Landscape Design and Turf Grass Management	.5 - 1	Landscape Design and Management	.5
		<b>Turf Grass Management</b>	.5
Horticulture Science	.5 - 1	Horticultural Science	1
n/a		<b>Greenhouse Operation and Production</b>	1
Advanced Plant and Soil Science	1	Advanced Plant and Soil Science	1
Agricultural Mechanics and Metal Technologies	.5 - 1	Agricultural Mechanics and Metal Technologies	1
Agricultural Facilities Design and Fabrication	1 - 2	Agricultural Structures Design and Fabrication	1
n/a		<b>Agricultural Equipment Design and Fabrication</b>	1
Agricultural Power Systems	1 - 2	Agricultural Power Systems	2
n/a		<b>Agricultural Laboratory and Field Experience**</b>	1
Practicum in Agriculture, Food, and Natural Resources	2 - 3	Practicum in Agriculture, Food, and Natural Resources	2
		<b>Extended Practicum in Agriculture, Food, and Natural Resources*</b>	1
<p>*This course must be taken concurrently with Practicum in Agriculture, Food, and Natural Resources and may not be taken as a stand-alone course.  **This course must be taken concurrently with a corequisite course from the Agriculture, Food, and Natural Resources Career Cluster and may not be taken as a stand-alone course. Districts are encouraged to offer this lab in a consecutive block with the corequisite course to allow students sufficient time to master the content of both courses. Corequisite: any course in the Agriculture, Food, and Natural Resources Career Cluster, excluding Principles of Agriculture, Food, and Natural Resources.</p>			
Subchapter B. Architecture and Construction			
2010	Credits	2017	Credits
Principles of Architecture and Construction	.5 - 1	<b>Principles of Architecture</b>	1
		<b>Principles of Construction</b>	1
Interior Design	.5 - 1	Interior Design I	1
Advanced Interior Design	1 - 2	Interior Design II	2
Practicum in Interior Design	2 - 3	Practicum in Interior Design	2
		<b>Extended Practicum in Interior Design*</b>	1
Architectural Design	1 - 2	Architectural Design I	1
Advanced Architectural Design	2 - 3	Architectural Design II	2
Practicum in Architectural Design	2 - 3	Practicum in Architectural Design	2
		<b>Extended Practicum in Architectural Design*</b>	1
Construction Management	1 - 2	Construction Management I	2
Advanced Construction Management	2 - 3	Construction Management II	2
Practicum in Construction Management	2 - 3	Practicum in Construction Management	2
		<b>Extended Practicum in Construction Management*</b>	1
Construction Technology	1 - 2	Construction Technology I	2

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Advanced Construction Technology	2 - 3	Construction Technology II	2
n/a		<b>Practicum in Construction Technology</b>	2
		<b>Extended Practicum in Construction Technology*</b>	1
Mill and Cabinetmaking Technology	2 - 3	Mill and Cabinetmaking Technology	2
Building Maintenance Technology	1 - 2	Building Maintenance Technology I	2
Advanced Building Maintenance Technology	2 - 3	Building Maintenance Technology II	2
Electrical Technology	1 - 2	Electrical Technology I	1
Advanced Electrical Technology	2 - 3	Electrical Technology II	2
Heating, Ventilation, and Air Conditioning (HVAC) and Refrigeration Technology	1 - 2	Heating, Ventilation, and Air Conditioning (HVAC) and Refrigeration Technology I	1
Advanced Heating, Ventilation, and Air Conditioning (HVAC) and Refrigeration Technology	2 - 3	Heating, Ventilation, and Air Conditioning (HVAC) and Refrigeration Technology II	2
Piping and Plumbing Technology	1 - 2	Plumbing Technology I	1
Advanced Piping and Plumbing Technology	2 - 3	Plumbing Technology II	2
n/a		<b>Masonry Technology I</b>	2
n/a		<b>Masonry Technology II</b>	2
n/a		<b>Practicum in Masonry Technology</b>	2
		<b>Extended Practicum in Masonry Technology*</b>	1
*This course must be taken concurrently with the related practicum course and may not be taken as a stand-alone course.			
<b>Subchapter C. Arts, A/V Technology, and Communications</b>			
<b>2010</b>	<b>Credits</b>	<b>2017</b>	<b>Credits</b>
Principles of Arts, Audio Video Technology, and Communications	.5 - 1	Principles of Arts, Audio/Video Technology, and Communications	1
Animation	1-2	Animation I	1
		<b>Animation I Lab**</b>	1
Advanced Animation	2-3	Animation II	1
		<b>Animation II Lab**</b>	1
n/a		<b>Practicum in Animation</b>	2
		<b>Extended Practicum in Animation*</b>	1
Audio Video Production	1 - 2	Audio/Video Production I	1
		<b>Audio/Video Production I Lab**</b>	1
Advanced Audio Video Production	2 - 3	Audio/Video Production II	1
		<b>Audio/Video Production II Lab**</b>	1
Practicum in Audio Video Production	2 - 3	Practicum in Audio/Video Production	2
		<b>Extended Practicum in Audio/Video Production*</b>	1
Graphic Design and Illustration	1 - 2	Graphic Design and Illustration I	1
		<b>Graphic Design and Illustration I Lab**</b>	1

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Advanced Graphic Design and Illustration	2 - 3	Graphic Design and Illustration II	1
		Graphic Design and Illustration II Lab**	1
Practicum in Graphic Design and Illustration	2 - 3	Practicum in Graphic Design and Illustration	2
		Extended Practicum in Graphic Design and Illustration*	1
Commercial Photography	1 - 2	Commercial Photography I	1
		Commercial Photography I Lab**	1
Advanced Commercial Photography	2 - 3	Commercial Photography II	1
		Commercial Photography II Lab**	1
n/a		Practicum in Commercial Photography	2
		Extended Practicum in Commercial Photography*	1
Fashion Design	1 - 2	Fashion Design I	1
		Fashion Design I Lab**	1
Advanced Fashion Design	2 - 3	Fashion Design II	1
		Fashion Design II Lab**	1
Practicum in Fashion Design	2 - 3	Practicum in Fashion Design	2
		Extended Practicum in Fashion Design*	1
Printing and Imaging Technology	1 - 2	Printing and Imaging Technology I	1
		Printing and Imaging Technology I Lab**	1
Advanced Printing and Imaging Technology	2 - 3	Printing and Imaging Technology II	1
		Printing and Imaging Technology II Lab**	1
Practicum in Printing and Imaging Technology	2 - 3	Practicum in Printing and Imaging Technology	2
		Extended Practicum in Printing and Imaging Technology*	1
Professional Communications	.5 - 1	Professional Communications	.5
Radio Broadcasting I (Innovative Course)	.5 - 1	Digital Audio Technology I	1
Radio Broadcasting II (Innovative Course)	.5 - 1	Digital Audio Technology II	1
Video Game Design I (Innovative Course)	1	Video Game Design	1
*This course must be taken concurrently with the related practicum course and may not be taken as a stand-alone course.			
**This course must be taken concurrently with the respective corequisite course and may not be taken as a stand-alone course. Districts are encouraged to offer this lab in a consecutive block with the respective course to allow students sufficient time to master the content of both courses.			
<b>Subchapter D. Business Management and Administration</b>			
<b>2010</b>	<b>Credits</b>	<b>2017</b>	<b>Credits</b>
Principles of Business, Marketing, and Finance	.5 - 1	Principles of Business, Marketing, and Finance	1
Touch System Data Entry	.5 - 1	Touch System Data Entry	.5
Business Information Management I	1 - 2	Business Information Management I	1
Business Information Management II	1 - 2	Business Information Management II	1

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Business English	1	Business English	1
Business Law	.5 - 1	Business Law	1
Global Business	.5 - 1	Global Business	.5
Human Resources Management	.5 - 1	Human Resources Management	.5
Virtual Business	.5 - 1	Virtual Business	.5
Business Management	1 - 2	Business Management	1
n/a		<b>Business Lab**</b>	1
Practicum in Business Management	2 - 3	Practicum in Business Management	2
		<b>Extended Practicum in Business Management*</b>	1
<p>*This course must be taken concurrently with Practicum in Business Management and may not be taken as a stand-alone course.  **This course must be taken concurrently with a course from the Business Management and Administration Career Cluster and may not be taken as a stand-alone course. Districts are encouraged to offer this lab in a consecutive block with the corequisite course to allow students sufficient time to master the content of both courses.</p>			
Subchapter E. Education and Training			
2010	Credits	2017	Credits
Principles of Education and Training	.5 - 1	Principles of Education and Training	1
Human Growth and Development	1	Human Growth and Development	1
Instructional Practices in Education and Training	1 - 2	Instructional Practices	2
Practicum in Education and Training	2 - 3	Practicum in Education and Training	2
		<b>Extended Practicum in Education and Training*</b>	1
<p>*This course must be taken concurrently with Practicum in Education and Training and may not be taken as a stand-alone course.</p>			
Subchapter F. Finance			
2010	Credits	2017	Credits
Money Matters	.5 - 1	Money Matters	1
Banking and Financial Services	.5 - 1	Banking and Financial Services	.5
Securities and Investments	.5 - 1	Securities and Investments	1
Insurance Operations	.5 - 1	Insurance Operations	1
Accounting I	1	Accounting I	1
Accounting II	1	Accounting II	1
Financial Analysis	1	Financial Analysis	1
Statistics and Risk Management	1	Statistics and Business Decision Making	1
n/a	1	Financial Mathematics (implemented 2015-2016)	1
Subchapter G. Government and Public Administration			
2010	Credits	2017	Credits
Principles of Government and Public Administration	.5 - 1	Principles of Government and Public Administration	1

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Political Science I	1 - 2	Political Science I	1
Political Science II	1 - 2	Political Science II	1
Revenue, Taxation, and Regulation	1 - 2	Revenue, Taxation, and Regulation	1
Public Management and Administration	1 - 2	Public Management and Administration	1
Planning and Governance	1 - 2	Planning and Governance	1
National Security	2 - 3	National Security	1
Foreign Service and Diplomacy	2 - 3	Foreign Service and Diplomacy	1
Practicum in Local, State, and Federal Government	2 - 3	Practicum in Local, State, and Federal Government	2
		<b>Extended Practicum in Local, State, and Federal Government*</b>	1

\*This course must be taken concurrently with Practicum in Local, State, and Federal Government and may not be taken as a stand-alone course.

### Subchapter H. Health Science

2010	Credits	2017	Credits
Principles of Health Science	.5 - 1	Principles of Health Science	1
Medical Terminology	.5	Medical Terminology	1
Health Science	1 - 2	Health Science Theory	1
		<b>Health Science Clinical**</b>	1
Practicum in Health Science	2 - 3	Practicum in Health Science	2
		<b>Extended Practicum in Health Science*</b>	1
Anatomy and Physiology	1	Anatomy and Physiology	1
Medical Microbiology	.5 - 1	Medical Microbiology	1
Pathophysiology	.5 - 1	Pathophysiology	1
World Health Research	1	World Health Research	1
n/a		<b>Pharmacology</b>	1
n/a		<b>Health Informatics</b>	1
Mathematics for Medical Professionals (Innovative Course)	1	Mathematics for Medical Professionals	1

\*This course must be taken concurrently with Practicum in Health Science and may not be taken as a stand-alone course.

\*\*This course must be taken concurrently with Health Science Theory and may not be taken as a stand-alone course. Districts are encouraged to offer this course in a consecutive block with Health Science Theory to allow students sufficient time to master the content of both courses.

### Subchapter I. Hospitality and Tourism

2010	Credits	2017	Credits
Principles of Hospitality and Tourism	.5 - 1	Principles of Hospitality and Tourism	1
Restaurant Management	.5 - 1	Introduction to Culinary Arts	1
Culinary Arts	1 - 2	Culinary Arts	2
Advanced Culinary Arts (Innovative Course)	1 - 2	Advanced Culinary Arts	2
Practicum in Culinary Arts	2 - 3	Practicum in Culinary Arts	2

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		<b>Extended Practicum in Culinary Arts*</b>	1
Food Science	1	Food Science	1
Hotel Management	.5 - 1	Hotel Management	1
Travel and Tourism Management	.5 - 1	Travel and Tourism Management	1
Hospitality Services	1 - 2	Hospitality Services	2
Practicum in Hospitality Services	2 - 3	Practicum in Hospitality Services	2
		<b>Extended Practicum in Hospitality Services*</b>	1

\*This course must be taken concurrently with the related practicum course and may not be taken as a stand-alone course.

### Subchapter J. Human Services

2010	Credits	2017	Credits
Principles of Human Services	.5 - 1	Principles of Human Services	1
Dollars and Sense	.5 - 1	Dollars and Sense	.5
Interpersonal Studies	.5 - 1	Interpersonal Studies	.5
Lifetime Nutrition and Wellness	.5 - 1	Lifetime Nutrition and Wellness	.5
Counseling and Mental Health	1 - 2	Counseling and Mental Health	1
Child Development	.5 - 1	Child Development	1
Child Guidance	1 - 2	Child Guidance	2
Family and Community Services	.5 - 1	Family and Community Services	1
Practicum in Human Services	2 - 3	Practicum in Human Services	2
		<b>Extended Practicum in Human Services*</b>	1
Principles of Cosmetology Design and Color Theory (Innovative Course)	1	Principles of Cosmetology Design and Color Theory	1
Introduction to Cosmetology	.5 - 1	Introduction to Cosmetology	1
Cosmetology I	2 - 3	Cosmetology I	2
Cosmetology II	2 - 3	Cosmetology II	2

\*This course must be taken concurrently with Practicum in Human Services and may not be taken as a stand-alone course.

### Subchapter K. Information Technology

2010	Credits	2017	Credits
Principles of Information Technology	.5 - 1	Principles of Information Technology	1
Computer Maintenance	1 - 2	Computer Maintenance	1
		<b>Computer Maintenance Lab**</b>	1
Telecommunications and Networking	1 - 2	Networking	1
		<b>Networking Lab**</b>	1
Computer Technician	2 - 3	Computer Technician Practicum	2
		<b>Extended Computer Technician Practicum*</b>	1

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Computer Programming	.5 - 1	Computer Programming I	1
Advanced Computer Programming	1 - 2	Computer Programming II	1
Digital and Interactive Media	.5 - 1	Digital Media	1
Web Technologies	.5 - 1	Web Technologies	1
Research in Information Technology Solutions	2 - 3	Practicum in Information Technology	2
		<b>Extended Practicum in Information Technology*</b>	1

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### Subchapter L. Law, Public Safety, Corrections, and Security

2010	Credits	2017	Credits
Principles of Law, Public Safety, Corrections, and Security	.5 - 1	Principles of Law, Public Safety, Corrections, and Security	1
Law Enforcement I	1 - 2	Law Enforcement I	1
Law Enforcement II	1 - 2	Law Enforcement II	1
Forensic Science	1	Forensic Science	1
n/a		<b>Criminal Investigation</b>	1
Court Systems and Practices	1 - 2	Court Systems and Practices	1
Correctional Services	1 - 2	Correctional Services	1
Security Services	1 - 2	Federal Law Enforcement and Protective Services	1
Firefighter I	1 - 2	Firefighter I	2
Firefighter II	2 - 3	Firefighter II	3
Practicum in Law, Public Safety, Corrections, and Security	2 - 3	Practicum in Law, Public Safety, Corrections, and Security	2
		<b>Extended Practicum in Law, Public Safety, Corrections, and Security*</b>	1

\*This course must be taken concurrently with Practicum in Law, Public Safety, Corrections, and Security and may not be taken as a stand-alone course.

### Subchapter M. Manufacturing

2010	Credits	2017	Credits
Principles of Manufacturing	.5 - 1	Principles of Manufacturing	1
n/a		<b>Introduction to Welding</b>	1
Welding	1 - 2	Welding I	2
Advanced Welding	2 - 3	Welding II	2
		<b>Welding II Lab**</b>	1
Precision Metal Manufacturing	1 - 2	Precision Metal Manufacturing I	2
Advanced Precision Metal Manufacturing	2 - 3	Precision Metal Manufacturing II	2
		<b>Precision Metal Manufacturing II Lab**</b>	1
n/a		<b>Diversified Manufacturing I</b>	1



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n/a		<b>Diversified Manufacturing II</b>	1
Manufacturing Engineering	2 - 3	Manufacturing Engineering Technology I	1
n/a		<b>Manufacturing Engineering Technology II</b>	1
Flexible Manufacturing	1 - 2	Metal Fabrication and Machining I	2
Advanced Flexible Manufacturing	2 - 3	Metal Fabrication and Machining II	2
Practicum in Manufacturing	2 - 3	Practicum in Manufacturing	2
		<b>Extended Practicum in Manufacturing*</b>	1
<p>*This course must be taken concurrently with Practicum in Manufacturing and may not be taken as a stand-alone course.  **This course must be taken concurrently with the respective corequisite course and may not be taken as a stand-alone course. Districts are encouraged to offer this course in a consecutive block with the respective course to allow students sufficient time to master the content of both courses.</p>			
Subchapter N. Marketing			
2010	Credits	2017	Credits
Advertising and Sales Promotion	.5 - 1	Advertising	.5
Fashion Marketing	.5 - 1	Fashion Marketing	.5
Entrepreneurship	.5 - 1	Entrepreneurship	1
Retailing and E-tailing	.5 - 1	(This course has been eliminated)	
Sports and Entertainment Marketing	.5 - 1	Sports and Entertainment Marketing	.5
Social Media Marketing (Innovative Course)	.5 - 1	<b>Social Media Marketing</b>	.5
Marketing Dynamics	2 - 3	Advanced Marketing	2
Practicum in Marketing Dynamics	2 - 3	Practicum in Marketing	2
		<b>Extended Practicum in Marketing*</b>	1
<p>*This course must be taken concurrently with Practicum in Marketing and may not be taken as a stand-alone course.</p>			
Subchapter O. Science, Technology, Engineering, and Mathematics			
2010	Credits	2017	Credits
Concepts of Engineering and Technology	.5 - 1	Principles of Applied Engineering	1
Biotechnology	1 - 2	Principles of Biosciences	1
Advanced Biotechnology	1	Biotechnology I	1
n/a		<b>Biotechnology II</b>	1
Engineering Design and Presentation	1 - 2	Engineering Design and Presentation I	1
Advanced Engineering Design and Presentation	2 - 3	Engineering Design and Presentation II	2
Engineering Mathematics	1	Engineering Mathematics	1
Electronics	1 - 2	AC/DC Electronics	1
Advanced Electronics	2 - 3	Solid State Electronics	1
Robotics and Automation	1 - 2	Robotics I	1
n/a		<b>Robotics II</b>	1

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Principles of Technology	1	Principles of Technology	1
Scientific Research and Design	1	Scientific Research and Design	1
Engineering Design and Problem Solving	1	Engineering Design and Problem Solving	1
Principles of Engineering	1	Engineering Science	1
Digital Electronics	1	Digital Electronics	1
Practicum in Science, Technology, Engineering, and Mathematics	2 - 3	Practicum in Science, Technology, Engineering, and Mathematics	2
		<b>Extended Practicum in Science, Technology, Engineering, and Mathematics*</b>	1
*This course must be taken concurrently with Practicum in Science, Technology, Engineering, and Mathematics and may not be taken as a stand-alone course.			
<b>Subchapter P. Transportation, Distribution, and Logistics</b>			
<b>2010</b>	<b>Credits</b>	<b>2017</b>	<b>Credits</b>
Principles of Transportation, Distribution, and Logistics	.5 - 1	<b>Principles of Transportation Systems</b>	1
n/a		<b>Principles of Distribution and Logistics</b>	1
Energy, Power, and Transportation Systems	.5 - 1	<b>Introduction to Transportation Technology</b>	.5
n/a		Energy and Power of Transportation Systems	1
Aircraft Technology	1 - 2	<b>Introduction to Aircraft Technology</b>	1
Advanced Aircraft Technology	2 - 3	Aircraft Airframe Technology	2
n/a		Aircraft Powerplant Technology	2
Automotive Technology	1 - 2	<b>Automotive Basics</b>	1
Advanced Automotive Technology	2 - 3	Automotive Technology I: Maintenance and Light Repair	2
n/a		Automotive Technology II: Automotive Service	2
n/a		<b>Advanced Transportation Systems Laboratory**</b>	1
Collision Repair and Refinishing	1 - 2	<b>Basic Collision Repair and Refinishing</b>	1
Advanced Collision Repair and Refinishing	2 - 3	Collision Repair	2
Small Engine Technology	1 - 2	Paint and Refinishing	2
Advanced Small Engine Technology	2 - 3	Small Engine Technology I	1
n/a		Small Engine Technology II	2
n/a		<b>Diesel Equipment Technology I</b>	2
Transportation Systems Management	1 - 2	<b>Diesel Equipment Technology II</b>	2
Logistics, Planning, and Management Systems	1 - 2	Management of Transportation Systems	1
Practicum in Transportation, Distribution, and Logistics	2 - 3	Distribution and Logistics	1
		<b>Practicum in Transportation Systems</b>	2
Practicum in Transportation, Distribution, and Logistics	2 - 3	<b>Extended Practicum in Transportation Systems*</b>	1
		<b>Practicum in Distribution and Logistics</b>	2
		<b>Extended Practicum in Distribution and Logistics*</b>	1

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\*\*This course must be taken concurrently with a corequisite course and may not be taken as a stand-alone course. Districts are encouraged to offer this lab in a consecutive block with the corequisite course to allow students sufficient time to master the content of both courses. Corequisites: Automotive Technology II: Automotive Services, Diesel Equipment Technology II, Collision Repair, Paint and Refinishing, Aircraft Airframe Technology, or Aircraft Powerplant Technology.