



COLLEGE CATALOG 2024-2025

316.677.9400 | WSUTECH.EDU

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COURSE DESCRIPTIONS

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WSU Tech has been delivering excellence in education since 1965 with our original campus on 301 S. Grove. WSU Tech continues to build on this tradition with quality instructors, talented students and state-of-the-art technical equipment. Together, these elements help create a hands-on learning environment that promotes participation and prepares students for further education and/or career experiences.

Mission, Vision and Values

Mission

The Mission of WSU Tech is to provide quality higher education and leadership in workforce training that supports economic development for a global economy.

Vision

To be one of the nation's most innovative and impactful two-year colleges.

Values: Values Based Culture

The WSU Tech team operates in a valued based culture and strive towards the following behaviors in everything they do.

SAME TEAM. One Role, One Goal: Unite and include many diverse perspectives to achieve our mission.

I Collaborate for Maximum Impact.

I give and accept constructive feedback through open communication.

I foster a fun and healthy environment that encourages relationship building.

I recognize and celebrate achievements of co-workers and students.

I advocate for an inclusive and diverse environment that allows all employees and students to thrive.

PEOPLE FIRST. Treat everyone consistently with compassion, respect, and kindness.

I listen first to understand.

I approach all interactions with empathy and respect.

I serve others with helping hands and a positive attitude.

I remain receptive to new ideas and approach situations with an open mind.

I assume good intentions and respond rather than react.

INTEGRITY. Uphold the highest standards in all our actions.

I exhibit ethical behavior by doing the right thing, even when no one is watching.

I build open and honest relationships.

I make my intentions clear.

I strive to earn trust, loyalty, and respect every day.

I utilize human, financial, and physical resources wisely.

Values Continued:

VISIONARY. Future focused. Redefining education by inspiring innovative ideas, bold explorations, and continuous curiosity.

I take educated risks to remain relevant, nimble and responsive to ever-evolving needs of our communities.

I am resilient when faced with rapid change and challenges.

I support innovation and remain open minded to bold, new ideas.

I demonstrate commitment to life-long learning and personal development.

LEADERSHIP. Leadership is an activity, not a position. Anyone can lead, anytime, anywhere.

I take initiative and do what needs to be done.

I am generous in sharing my knowledge.

I empower others to resolve problems at the first opportunity.

I am responsible for communicating and cascading needed information throughout the college.

I demonstrate good judgment in decision making.

SERVICE TO ALL. Provide exceptional experiences to all that we serve.

I anticipate the needs of each individual and take a solutions-oriented approach.

I model excellence through accountability to myself and others.

I aspire to exceed expectations.

I am committed to providing exceptional experiences.

I act with an attitude of selflessness in all interactions.

Guiding Principles

Provide our students an opportunity to a better life through education and training.

Provide a highly educated and trained workforce for our community to be globally competitive.

Ask ourselves as we make decisions, is it in the best interest of our students, employees and community.

Strategic Plan

[2021-2023 Strategic Plan](#) - *Extended for 2024. 2025 Strategic Plan Pending Will Submit Addendum Upon Completion.

Governance and Structure

Kansas Board of Regents

The Kansas Board of Regents (KBOR) is comprised of nine members who are appointed by the governor of Kansas and confirmed by the Kansas Senate. KBOR governs six state universities and supervises and coordinates 19 community colleges, six technical colleges and a municipal university. KBOR primarily deals with educational policies, programs, services, providers and other systems in an effort to improve and

Governance and Structure Continued:

maintain the high quality of education in Kansas. KBOR also coordinates vital programs, such as adult literacy, qualified admissions, concurrent enrollment for high school students, financial assistance for education and many others. KBOR, in conjunction with the Kansas Post secondary Technical Education Authority, approves technical programs offered by WSU Tech.

WSU Tech Industry Advisory Board

The WSU Tech Industry Advisory Board consists of 11 appointed, voting members who establish and publish policies, regulations and procedures pertaining to WSU Tech.

Industry Advocate Teams

Program advisory committees, representatives from business and industry, provide a very important link between WSU Tech and the community. These teams validate learning outcomes deemed essential by business and industry for successful entry or advancement in specific occupations. These teams also monitor the curriculum, recommend instructional equipment and help keep the programs current with emerging technologies.

Accreditation

The Higher Learning Commission – North Central Association

The Higher Learning Commission (HLC) is part of the North Central Association (NCA) of Colleges and Schools. NCA is one of six regional institutional accreditors in the United States. Through its Commissions, it accredits and thereby grants membership to educational institutions in the North Central region.

WSU Tech is fully accredited by The Higher Learning Commission and a member of the North Central Association as of October 2008.

The Higher Learning Commission

230 South LaSalle Street, Suite 7-500 Chicago, IL 60604-1411

Phone: 800.621.7440 / 312.263.0456

Fax: 312.263.7462

Nondiscrimination

WSU Tech does not discriminate with regard to race, color, national origin, sex, handicap/disability, religion or age. Persons having inquiries may contact the Human Resources director, 4004 N. Webb Rd, Wichita, KS 67226, 316.677.9400.

WSU Tech intends to comply with all applicable federal, state and local laws and regulations, including but not limited to: the Civil Rights Act of 1964, as amended; the Americans With Disabilities Act of 1990; the Age Discrimination in Employment Act of 1967; the Drug-Free Schools and Campuses Act; the Campus Security Act (Jeanne Cleary Act), as amended; the Family Educational Rights and Privacy Act of 1974, as amended; and the Nondiscrimination on the Basis of Sex in Education Programs or Activities Receiving Federal Financial Assistance rules.

Persons having inquiries may contact the Human Resources director, 4004 N. Webb Rd, Wichita, KS 67226, 316.677.9400.

Educational Programs

Students have many educational opportunities at WSU Tech and are encouraged to select the program or course of study that best meets their needs. These opportunities include general education courses and associate of applied science (AAS) degrees, technical certificates, and certificates of completion. Students may also opt to select courses that focus on particular technical skills instead of registering in a complete program.

Associate of Applied Science Degrees

AAS degree programs are designed to provide students with the knowledge and skills needed to enter the workforce, advance within their chosen careers or further their education. To be awarded the AAS degree, students must successfully complete a minimum of 60 credit hours – a combination of technical and general education hours. Although AAS degrees are designed to prepare students for employment, technical credits may transfer to other colleges or universities. The Vice President, Academic Affairs may approve alternative general education courses and acceptance of transfer credits or work experience.

General Education

WSU Tech's philosophy and approach to general education promotes the appreciation for lifelong learning necessary to support the professional, academic, and personal success of students. Every degree program incorporates general education courses designed to prepare students with a foundation in computers, written and verbal communication, mathematics, natural sciences and social sciences. These themes are also integrated and applied through the core curriculum in WSU Tech's technical certificate programs.

WSU Tech provides general education courses required for its degree programs. These courses are taught with curricula that meet or exceed state core curriculum standards approved by KBOR and are taught by instructors with the appropriate credentials. WSU Tech's general education courses that lead to the AAS degree are interspersed throughout the program with various instructional delivery methods that allow flexibility for student schedules.

WSU Tech's technical coursework provides a knowledge base in the application of natural sciences and fosters a tendency to think using an analytical and problem-solution approach; however, what students learn in technical courses is not the only knowledge they need nor is it the only way of thinking. Students will encounter people in their professional and personal lives that will challenge them in other ways – politically, aesthetically, emotionally and morally. General education courses are designed to support and further students' comfort level in dealing with differing opinions and appreciating other ways of thinking.

Technical Certificates

Technical certificate programs provide the knowledge and skills needed to enter the workforce. Students who wish to pursue an AAS degree may transfer most of these courses and credits to an AAS degree program at WSU Tech.

Certificates of Completion

Certificate of Completion programs provide the knowledge and skills required in today's competitive and changing workforce. Programs vary in length from a few days to several months.

Policies and Procedures

Chapter 1	Organization
Chapter 2	Personnel Policies
Chapter 3	Students
Chapter 4	Fiscal
Chapter 5	Academic
Chapter 6	Buildings and Grounds
Chapter 7	Safety and Security
Chapter 8	Marketing
Chapter 9	Information Technology
Chapter 10	Foundation and Grants
Chapter 11	Workforce

Skills USA Fee

All students enrolled in the following programs are assessed a mandatory fee for Skills USA:

Automotive Service Technology, Climate and Energy Control Technologies (HVAC), Aviation Maintenance Technology, Machining Technology, Construction Science, Architectural Design Technology, Engineering Design Technology, Welding, Police Science.

Locations & Phone Numbers

General Information	316.677.9400
Fax	316.677.9555
Website	wsutech.edu
Emergency Closing Hotline	316.677.9596

NATIONAL CENTER FOR AVIATION TRAINING/JABARA (NCAT)

4004 N. Webb Road | Wichita, KS 67226 | 316.677.9400

General Information	316.677.9400
Academic Success/Tutoring	316.677.9440
Admissions	316.677.9400
Bookstore	316.677.9459
Business Office	316.677.9511
Disability Services/Accommodation Requests	316.677.1912
Financial Aid	316.677.9400
Online Learning	316.677.9400
Registrar	316.677.9400
Student IT Helpdesk	316.677.9906
Student Success Services/Career Services	316.677.9520
Testing Services	316.677.9506
Workforce Education and Development	316.677.1404

CITY CENTER CAMPUS

301 S. Grove | Wichita, KS 67211 | 316.677.9400

Adult Literacy/GED	316.677.1150
General Information	316.677.9440

WSU SOUTH

3821 E. Harry | Wichita, KS | 67218 | 316.677.9400

General Information	316.677.1500
Academic Success/Tutoring	316.677.9440
Admissions	316.677.9400
Business Office	316.677.1941
Disability Services/Accommodation Requests	316.677.1912
Financial Aid	316.677.9400
Library	316.677.9492
Online Learning	316.677.9400
Registrar	316.677.9400
Student Success Services/Career Services	316.677.9520
Testing Services	316.677.9492

NATIONAL INSTITUTE FOR CULINARY AND HOSPITALITY EDUCATION (NICHE)
124 S. Broadway | Wichita, KS | 67202 | 316.677.9400

Additional Instructional Sites

WSU West

3801 N. Walker Avenue | Maize, KS | 67101 | 316.677.9400

McConnell Air Force Base

Robert J. Dole Community Center

53474 Lawrence Ct | McConnell AFB | KS 67221



PROGRAMS OF STUDY

Accounting, TC

CRN	COURSE NAME	CREDITS
ACC 105	Fundamentals of Accounting	3
ACC 130	Managerial Accounting	3
ACC 160	Principles of Accounting I	3
ACC 170	Principles of Accounting II	3
BUS 104	Introduction to Business	3
BUS 130	Personal Finance	3
BUS 137	QuickBooks	3
BUS 200	Principles of Management	3
ECO 105	Principles of Macroeconomics	3
ECO 110	Principles of Microeconomics	3
ENG 101	Composition I	3
MTH 112	College Algebra	3
MTH 120	Elementary Statistics	3
SPH 101	Public Speaking	3
	Humanities Elective	3
Total		45.00

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

LOCATION
WSU South 3821 E. Harry Wichita, KS 67218 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*	
PROGRAM TOTAL	\$6,850.00
*Cost does not include online fees, books or tools. Financial Assistance may be available to those who qualify. Total calculated based on the lowest cost combination of elective credits required.	

PLACEMENT & WAGE DATA
<p>WSUTECH.edu/KBORplacement</p> <p>Get historical data on job placement rates and average wages from WSU Tech graduates.</p>

Advanced Assembly, TC

CRN	COURSE NAME	CREDITS
MNF 113	Blueprint Basics For Manufacturing	2
MNF 110	CNC Basics	2
MNF 115	Forklift Operations	1
MNF 120	Manufacturing Processes & Production I	3
MNF 125	Maintenance Training	4
MNF 130	Manufacturing Processes & Production II	3
MNF 163	Production Assembly	3
MNF 147	Introduction to Kitting	4
MNF 157	Lean/Six Sigma	3
AVC 104	Quality Control Concepts	1
AVC 110	Safety/OSHA 10	1
AVC 135	Hand Tools	1
AVC 145	Power Island	1
MCD 106	Precision Measuring	2
MCD 130	Basic Solidworks	3
MCD 137	Introduction to 3D Printing	2
MMG 131	Metallurgy	1
ROB 100	Introduction to Robotics	3
MTH 020	Math Fundamentals	3
PDV 115	Work Ethics	2
Total		45.00

LOCATION

National Center for Aviation Training
 4004 N. Webb Road | Wichita, KS 67226
 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*

PROGRAM TOTAL **\$11,263.00**

*Cost does not include online fees, books or tools.
 Financial Assistance may be available to those who qualify.
 Total calculated based on the lowest cost combination of
 elective credits required.

PLACEMENT & WAGE DATA

WSUTECH.edu/KBORplacement

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 from WSU Tech graduates.

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Aerospace Coatings and Paint Technology, AAS

CRN	COURSE NAME	CREDITS
ACP 100	Introduction to Coatings & Paint Technology	3
ACP 101	Surface Preparation & Coatings	4
ACP 102	Performance & Durability of Coatings	3
ACP 103	Color Technology	3
ACP 104	Specialized Coatings Processes	3
ACP 105	Specialized Detailing	3
ACP 106	Aerospace Coatings & Materials	3
ACP 111	Technical Co-Operative Project	4
ACP 121	Surface Preparation & Coatings II	3
ACP 124	Specialized Coatings Processes II	4
ACP 145	Environmental Health and Safety	2
AVC 104	Quality Control Concepts	1
AVC 105	Aircraft Familiarization	1
AVC 107	Fundamentals for Aerospace Manufacturing	1
AVC 110	Safety/OSHA 10	1
AVC 112	Blueprint Reading	2
AVC 120	Introduction to Sealing	1
AVC 140	Electrical Bonding & Grounding	1
MCD 106	Precision Measuring	2
ENG 101	Composition I	3
	Communication Elective	3
	Humanities Elective	3
	Math Elective	3
	Social Science Elective	3
Total		60.00

LOCATION

National Center for Aviation Training
 4004 N. Webb Road | Wichita, KS 67226
 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*

PROGRAM TOTAL **\$16,593.00**

*Cost does not include online fees, books or tools.
 Financial Assistance may be available to those who qualify.
 Total calculated based on the lowest cost combination of
 elective credits required.

PLACEMENT & WAGE DATA

WSUTECH.edu/KBORplacement

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 from WSU Tech graduates.

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 Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for
 program admission requirements.

Aerospace Coatings and Paint Technology, TC

CRN	COURSE NAME	CREDITS
ACP 100	Introduction to Coatings & Paint Technology	3
ACP 101	Surface Preparation & Coatings	4
ACP 102	Performance & Durability of Coatings	3
ACP 103	Color Technology	3
ACP 104	Specialized Coatings Processes	3
ACP 105	Specialized Detailing	3
ACP 106	Aerospace Coatings & Materials	3
ACP 111	Technical Co-Operative Project	4
ACP 121	Surface Preparation & Coatings II	3
ACP 124	Specialized Coatings Processes II	4
ACP 145	Environmental Health and Safety	2
AVC 104	Quality Control Concepts	1
AVC 105	Aircraft Familiarization	1
AVC 107	Fundamentals for Aerospace Manufacturing	1
AVC 110	Safety/OSHA 10	1
AVC 112	Blueprint Reading	2
AVC 120	Introduction to Sealing	1
AVC 140	Electrical Bonding & Grounding	1
MCD 106	Precision Measuring	2
MTH 020	Math Fundamentals	3
Total		48.00

LOCATION

National Center for Aviation Training
 4004 N. Webb Road | Wichita, KS 67226
 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*

PROGRAM TOTAL **\$14,973.00**

*Cost does not include online fees, books or tools.
 Financial Assistance may be available to those who qualify.
 Total calculated based on the lowest cost combination of
 elective credits required.

PLACEMENT & WAGE DATA

WSUTECH.edu/KBORplacement

Get historical data on job placement rates and average wages
 from WSU Tech graduates.

*Some courses may have a prerequisite in addition to the classes listed above.
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 program admission requirements.

Aerospace Manufacturing Technology, AAS

CRN	COURSE NAME	CREDITS
ENG 101	Technical Electives - 45	45
	Composition I	3
	Communication Elective	3
	Humanities Elective	3
	Math Elective	3
	Social Science Elective	3
Technical Elective		
ACP 100	Introduction to Coatings & Paint Technology	
ACP 101	Surface Preparation & Coatings	
ACP 104	Specialized Coating Processes	
AER 106	Aerospace Manufacturing Tooling Orientation	
AER 111	Tap and Die	
AER 115	Aerostructures Assembly	
AER 116	Hand Power Tools for Aerospace Tooling	
AER 126	Tooling Capstone	
AER 135	Quality Assurance Orientation	
AER 150	Assembly Overview I	
AER 157	Advanced Assembly	
AER 165	Electrical Assembly Mechanic Orientation	
AER 166	Electrical Hand Tools	
AER 167	Drilling & Riveting/Ground Stud Installation	
AER 168	Wire Installation Drawings	
AER 169	Crimping & Cables	
AER 170	Fiber Optics for Aerospace	
AER 175	Wire Bundle Basics	
AER 180	Soldering	
AER 185	Wire Bundle Installation	
AVC 102	Precision Instruments	
AVC 103	Geometric Dimensioning & Tolerancing	
AVC 104	Quality Control Concepts	
AVC 107	Fundamentals for Aerospace Manufacturing	
AVC 108	Aircraft Systems & Components	
AVC 110	Safety/OSHA 10	
AVC 112	Blueprint Reading	
AVC 117	Hand & Power Tools	
AVC 125	Bonding and Grounding	
AVC 127	Aviation Assembly Core	
AVC 135	Hand Tools	
AVC 140	Electrical Bonding & Grounding	
AVC 145	Power Island	
AVC 150	Human Factors	
AVC 165	Technical Writing	
AVC 170	Conflict Resolution	
AVC 137	Precision Measuring	
AVC 190	Aerospace Applied Learning	
BUS 121	Business Communications	
CFT 101	Introduction to Composites	
CFT 106	Composite Finish Trim	
CFT 112	Composite Assembly I	
CFT 113	Composite Assembly II	
CFT 107	Composite Assembly	
CFT 130	Composite Fabrication Methods /Applications	
CFT 135	Overview of Composite Inspection	
CFT 140	Composite Inspection	
CWG 110	Welding Applications	
CWG 105	Welding Safety & Orientation	
LEN 100	Lean for Operations	
MCD 106	Precision Measuring	
MCD 137	Introduction to 3D Printing	
NDT 114	Visual Inspection	
ROB 100	Introduction to Robotics	
Total		60.00

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

LOCATION
National Center for Aviation Training 4004 N. Webb Road Wichita, KS 67226 316.677.9400 Get maps at WSUTECH.edu/Campuses
COSTS*
PROGRAM TOTAL \$14,784.00
*Cost does not include online fees, books or tools. Financial Assistance may be available to those who qualify. Total calculated based on the lowest cost combination of elective credits required.
PLACEMENT & WAGE DATA
WSUTECH.edu/KBORplacement
Get historical data on job placement rates and average wages from WSU Tech graduates.

Alternative Fuel Vehicle Maintenance & Advanced Electronics, AAS

CRN	COURSE NAME	CREDITS
AFV 110	Electrical I	3
AFV 120	Electrical II	3
AFV 130	Suspension and Steering I	3
AFV 135	Introduction to Alternative Fuels	3
AFV 140	Engine Repair	4
AFV 145	Hybrid Systems & Maintenance	3
AFV 150	Electric/Fuel Cell Technology	1
AFV 155	High Voltage Battery Technology & Management	3
AFV 160	Brakes I	3
AFV 165	Introduction to CNG and LPG Conversion, Installation & Maintenance	1
AFV 170	Computer Systems for Alternative Fuels	3
AFV 175	Automatic Transmission Repair	4
AFV 180	Heating & Air Conditioning	4
AFV 206	PowerTrain Systems	4
AFV 225	Electrical III	2
TAS 160	Transportation Industry Safety	1
TAS 105	Orientation to the Transportation Industry	1
ENG 101	Composition I	3
	Communication Elective	3
	Humanities Elective	3
	Math Elective	3
	Social Science Elective	3
Total		61.00

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

LOCATION

City Center
 301 S. Grove | Wichita, KS 67211
 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*

PROGRAM TOTAL **\$14,143.00**

*Cost does not include online fees, books or tools. Financial Assistance may be available to those who qualify. Total calculated based on the lowest cost combination of elective credits required.

PLACEMENT & WAGE DATA

WSUTECH.edu/KBORplacement

Get historical data on job placement rates and average wages from WSU Tech graduates.

Alternative Fuel Vehicle Maintenance & Advanced Electronics, TC

CRN	COURSE NAME	CREDITS
AFV 110	Electrical I	3
AFV 120	Electrical II	3
AFV 130	Suspension and Steering I	3
AFV 135	Introduction to Alternative Fuels	3
AFV 140	Engine Repair	4
AFV 145	Hybrid Systems & Maintenance	3
AFV 150	Electric/Fuel Cell Technology	1
AFV 155	High Voltage Battery Technology & Management	3
AFV 160	Brakes I	3
AFV 165	Introduction to CNG and LPG Conversion, Installation & Maintenance	1
AFV 170	Computer Systems for Alternative Fuels	3
AFV 175	Automatic Transmission Repair	4
AFV 180	Heating & Air Conditioning	4
AFV 206	PowerTrain Systems	4
AFV 225	Electrical III	2
TAS 160	Transportation Industry Safety	1
TAS 105	Orientation to the Transportation Industry	1
Total		46.00

LOCATION

City Center
 301 S. Grove | Wichita, KS 67211
 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*

PROGRAM TOTAL **\$12,050.00**

*Cost does not include online fees, books or tools.
 Financial Assistance may be available to those who qualify.
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PLACEMENT & WAGE DATA

WSUTECH.edu/KBORplacement

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Architectural Design Technology, AAS

CRN	COURSE NAME	CREDITS
MCD 101	Introduction to CAD I	3
MCD 102	Introduction to CAD II	2
MCD 104	Blueprint Reading for Drafting	2
MCD 106	Precision Measuring	2
MCD 112	Industrial Materials & Processes	2
MCD 114	Architectural Drafting & Design	3
MCD 115	Machine Drafting & Design	3
MCD 121	Descriptive Geometry	3
MCD 164	Residential Design Using Autodesk Revit	4
MCD 124	Advanced AutoCAD	4
MCD 132	Basic Chief Architect/Architectural Desktop	3
MCD 134	Advanced Chief Architect/Architectural Desktop	3
MCD 224	Commercial Design Using Autodesk Revit	3
MCD 205	Residential Drafting	3
MCD	Technical Elective - 3 Credits	3
ENG 101	Composition I	3
PDV 115	Work Ethics	2
	Communication Elective	3
	Humanities Elective	3
	Math Elective	3
	Social Science Elective	3
Technical Elective		
CAT 101	CATIA Parts Design & Sketcher	
MCD 130	Basic Solidworks	
MCD 133	Advanced Solidworks	
MCD 137	Introduction to 3D Printing	
MCD 140	Drafting Technology Internship	
MCD 210	Advanced Measuring	
MCD 156	Intermediate Measuring Instruments	
Total		60.00

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

LOCATION
National Center for Aviation Training 4004 N. Webb Road Wichita, KS 67226 316.677.9400 Get maps at WSUTECH.edu/Campuses
COSTS*
PROGRAM TOTAL \$14,000.00
*Cost does not include online fees, books or tools. Financial Assistance may be available to those who qualify. Total calculated based on the lowest cost combination of elective credits required.
PLACEMENT & WAGE DATA
WSUTECH.edu/KBORplacement
Get historical data on job placement rates and average wages from WSU Tech graduates.

Architectural Design Technology, TC

CRN	COURSE NAME	CREDITS
MCD 101	Introduction to CAD I	3
MCD 102	Introduction to CAD II	2
MCD 104	Blueprint Reading for Drafting	2
MCD 106	Precision Measuring	2
MCD 112	Industrial Materials & Processes	2
MCD 114	Architectural Drafting & Design	3
MCD 115	Machine Drafting & Design	3
MCD 121	Descriptive Geometry	3
MCD 164	Residential Design Using Autodesk Revit	4
MCD 124	Advanced AutoCAD	4
MCD 132	Basic Chief Architect/Architectural Desktop	3
MCD 134	Advanced Chief Architect/Architectural Desktop	3
PDV 115	Work Ethics	2
	Communication Elective	3
	Humanities Elective	3
	Math Elective	3
Total		45.00

LOCATION

National Center for Aviation Training
 4004 N. Webb Road | Wichita, KS 67226
 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*

PROGRAM TOTAL **\$10,697.00**

*Cost does not include online fees, books or tools.
 Financial Assistance may be available to those who qualify.
 Total calculated based on the lowest cost combination of elective credits required.

PLACEMENT & WAGE DATA

WSUTECH.edu/KBORplacement

Get historical data on job placement rates and average wages from WSU Tech graduates.

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

Automotive Service Technology, AAS

CRN	COURSE NAME	CREDITS
TAS 105	Orientation to the Transportation Industry	1
TAS 121	Engine Repair	4
TAS 124	Electrical I	3
TAS 125	Electrical II	3
TAS 127	Automatic Transmission Repair	4
TAS 128	Heating & Air Conditioning	4
TAS 131	Engine Performance I	3
TAS 132	Engine Performance II	3
TAS 133	Brakes I	3
TAS 134	Brakes II for Automotive	1
TAS 135	Computer Systems for Automotive	3
TAS 136	Suspension and Steering I	3
TAS 137	Suspension and Steering II	2
TAS 150	O.E.M. Certification	2
TAS 160	Transportation Industry Safety	1
TAS 206	PowerTrain Systems	4
TAS 225	Electrical III	2
ENG 101	Composition I	3
	Communication Elective	3
	Humanities Elective	3
	Math Elective	3
	Social Science Elective	3
Total		61.00

LOCATION

City Center
 301 S. Grove | Wichita, KS 67211
 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*

PROGRAM TOTAL **\$14,143.00**

*Cost does not include online fees, books or tools.
 Financial Assistance may be available to those who qualify.
 Total calculated based on the lowest cost combination of elective credits required.

PLACEMENT & WAGE DATA

WSUTECH.edu/KBORplacement

Get historical data on job placement rates and average wages from WSU Tech graduates.

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

Automotive Technology, TC

CRN	COURSE NAME	CREDITS
TAS 105	Orientation to the Transportation Industry	1
TAS 121	Engine Repair	4
TAS 124	Electrical I	3
TAS 125	Electrical II	3
TAS 127	Automatic Transmission Repair	4
TAS 128	Heating & Air Conditioning	4
TAS 131	Engine Performance I	3
TAS 132	Engine Performance II	3
TAS 133	Brakes I	3
TAS 134	Brakes II for Automotive	1
TAS 135	Computer Systems for Automotive	3
TAS 136	Suspension and Steering I	3
TAS 137	Suspension and Steering II	2
TAS 150	O.E.M. Certification	2
TAS 160	Transportation Industry Safety	1
TAS 206	PowerTrain Systems	4
TAS 225	Electrical III	2
MTH 020	Math Fundamentals	3
Total		49.00

LOCATION

City Center
 301 S. Grove | Wichita, KS 67211
 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*

PROGRAM TOTAL **\$12,523.00**

*Cost does not include online fees, books or tools.
 Financial Assistance may be available to those who qualify.
 Total calculated based on the lowest cost combination of elective credits required.

PLACEMENT & WAGE DATA

WSUTECH.edu/KBORplacement

Get historical data on job placement rates and average wages from WSU Tech graduates.

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

Aviation Maintenance Airframe, TC

CRN	COURSE NAME	CREDITS
AMT 233	Airframe I	4
AMT 234	Airframe II	5
AMT 235	Airframe III	5
AMT 236	Airframe IV	5
AMT 237	Airframe V	5
AMT 238	Airframe VI	5
AMT 239	Airframe VII	5
Total		34.00

LOCATION

National Center for Aviation Training
 4004 N. Webb Road | Wichita, KS 67226
 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*

PROGRAM TOTAL **\$13,485.00**

*Cost does not include online fees, books or tools.
 Financial Assistance may be available to those who qualify.
 Total calculated based on the lowest cost combination of
 elective credits required.

PLACEMENT & WAGE DATA

WSUTECH.edu/KBORplacement

Get historical data on job placement rates and average wages
 from WSU Tech graduates.

All AMT program students are required to purchase tool kits via WSU Tech. This purchase will be made in the Airframe 2 and PowerPlant 2 semesters of the program. Tools may not be purchased outside of WSU Tech.

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

Aviation Maintenance General, TC

CRN	COURSE NAME	CREDITS
AMT 187	General I	4
AMT 188	General II	4
AMT 189	General III	5
AMT 190	General IV	5
Total		18.00

LOCATION

National Center for Aviation Training
 4004 N. Webb Road | Wichita, KS 67226
 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*

PROGRAM TOTAL \$6,795.00

*Cost does not include online fees, books or tools.
 Financial Assistance may be available to those who qualify.
 Total calculated based on the lowest cost combination of
 elective credits required.

PLACEMENT & WAGE DATA

WSUTECH.edu/KBORplacement

Get historical data on job placement rates and average wages
 from WSU Tech graduates.

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

Aviation Maintenance Powerplant, TC

CRN	COURSE NAME	CREDITS
AMT 253	Powerplant I	4
AMT 254	Powerplant II	5
AMT 255	Powerplant III	5
AMT 256	Powerplant IV	6
AMT 257	Powerplant V	5
Total		25.00

LOCATION

National Center for Aviation Training
 4004 N. Webb Road | Wichita, KS 67226
 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*

PROGRAM TOTAL \$10,425.00

*Cost does not include online fees, books or tools.
 Financial Assistance may be available to those who qualify.
 Total calculated based on the lowest cost combination of
 elective credits required.

PLACEMENT & WAGE DATA

WSUTECH.edu/KBORplacement

Get historical data on job placement rates and average wages
 from WSU Tech graduates.

All AMT program students are required to purchase tool kits via WSU Tech. This purchase will be made in the Airframe 2 and PowerPlant 2 semesters of the program. Tools may not be purchased outside of WSU Tech.

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

Aviation Maintenance Technology, AAS

CRN	COURSE NAME	CREDITS
AMT 233	Airframe I	4
AMT 234	Airframe II	5
AMT 235	Airframe III	5
AMT 236	Airframe IV	5
AMT 237	Airframe V	5
AMT 238	Airframe VI	5
AMT 239	Airframe VII	5
AMT 187	General I	4
AMT 188	General II	4
AMT 189	General III	5
AMT 190	General IV	5
AMT 253	Powerplant I	4
AMT 254	Powerplant II	5
AMT 255	Powerplant III	5
AMT 256	Powerplant IV	6
AMT 257	Powerplant V	5
ENG 101	Composition I	3
	Communication Elective	3
	Humanities Elective	3
	Math Elective	3
	Social Science Elective	3
Total		92.00

LOCATION

National Center for Aviation Training
 4004 N. Webb Road | Wichita, KS 67226
 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*

PROGRAM TOTAL **\$32,798.00**

*Cost does not include online fees, books or tools.
 Financial Assistance may be available to those who qualify.
 Total calculated based on the lowest cost combination of
 elective credits required.

PLACEMENT & WAGE DATA

WSUTECH.edu/KBORplacement

Get historical data on job placement rates and average wages
 from WSU Tech graduates.

**All AMT program students are required to purchase tool kits
 via WSU Tech. This purchase will be made in the Airframe 2
 and PowerPlant 2 semesters of the program. Tools may not
 be purchased outside of WSU Tech.**

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

Aviation Sheetmetal Assembly CBE, TC

CRN	COURSE NAME	CREDITS
AER 150	Assembly Overview I	3
AER 157	Advanced Assembly	3
AVC 104	Quality Control Concepts	1
AVC 110	Safety/OSHA 10	1
AVC 112	Blueprint Reading	2
AVC 117	Hand & Power Tools	4
AVC 137	Precision Measuring	2
AVC 140	Electrical Bonding & Grounding	1
MTH 020	Math Fundamentals	3
Total		20.00

LOCATION

National Center for Aviation Training
 4004 N. Webb Road | Wichita, KS 67226
 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*

PROGRAM TOTAL **\$5,413.00**

*Cost does not include online fees, books or tools.
 Financial Assistance may be available to those who qualify.
 Total calculated based on the lowest cost combination of
 elective credits required.

PLACEMENT & WAGE DATA

WSUTECH.edu/KBORplacement

Get historical data on job placement rates and average wages
 from WSU Tech graduates.

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

Avionics, AAS

CRN	COURSE NAME	CREDITS
AVT 101	Electricity & Electronics I	4
AVT 103	Avionics	3
AVT 105	Avionics Systems & Troubleshooting	5
AVT 108	Wiring & Cannon Plug Lab	2
AVT 110	Communication, Navigation & Surveillance Systems I	5
AVT 112	Communication, Navigation & Surveillance Systems II	4
AVT 122	Aircraft and Electronics for NCATT Applications	4
AVT 131	Electricity and Electronics II	4
AVT 137	Fundamentals of Flight	3
AVT 145	Troubleshooting Essentials	3
AVT 150	UAS Operations	3
AVT 155	Advanced Wiring	3
AVT 170	Soldering	2
ENG 101	Composition I	3
	Communication Elective	3
	Math Elective	3
	Social Science Elective	3
	Humanities Elective	3
Total		60.00

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

LOCATION

National Center for Aviation Training
 4004 N. Webb Road | Wichita, KS 67226
 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*

PROGRAM TOTAL **\$14,415.00**

*Cost does not include online fees, books or tools. Financial Assistance may be available to those who qualify. Total calculated based on the lowest cost combination of elective credits required.

PLACEMENT & WAGE DATA

WSUTECH.edu/KBORplacement

Get historical data on job placement rates and average wages from WSU Tech graduates.

Avionics, TC

CRN	COURSE NAME	CREDITS
AVT 101	Electricity & Electronics I	4
AVT 103	Avionics	3
AVT 105	Avionics Systems & Troubleshooting	5
AVT 108	Wiring & Cannon Plug Lab	2
AVT 110	Communication, Navigation & Surveillance Systems I	5
AVT 112	Communication, Navigation & Surveillance Systems II	4
AVT 122	Aircraft and Electronics for NCATT Applications	4
AVT 131	Electricity and Electronics II	4
AVT 137	Fundamentals of Flight	3
AVT 145	Troubleshooting Essentials	3
AVT 150	UAS Operations	3
AVT 155	Advanced Wiring	3
AVT 170	Soldering	2
	Math Elective	3
Total		48.00

LOCATION

National Center for Aviation Training
 4004 N. Webb Road | Wichita, KS 67226
 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*

PROGRAM TOTAL \$12,727.00

*Cost does not include online fees, books or tools. Financial Assistance may be available to those who qualify. Total calculated based on the lowest cost combination of elective credits required.

PLACEMENT & WAGE DATA

WSUTECH.edu/KBORplacement

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Business Administration, AAS

CRN	COURSE NAME	CREDITS
ACC 105	Fundamentals of Accounting	3
ACC 130	Managerial Accounting	3
ACC 160	Principles of Accounting I	3
ACC 170	Principles of Accounting II	3
BUS 104	Introduction to Business	3
BUS 121	Business Communications	3
BUS 140	Principles of Marketing	3
BUS 200	Principles of Management	3
ECO 105	Principles of Macroeconomics	3
ECO 110	Principles of Microeconomics	3
ENG 101	Composition I	3
ENG 120	Composition II	3
ENT 110	Introduction to Entrepreneurship	3
MTH 112	College Algebra	3
MTH 120	Elementary Statistics	3
PHL 115	Logic	3
PSY 101	General Psychology	3
SPH 101	Public Speaking	3
	Electives - 3 Credits	3
	Humanities Elective	3
Electives		
BUS 130	Personal Finance	
BUS 180	Business Internship	
BUS 137	QuickBooks	
Total		60.00

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

LOCATION
<p>WSU South 3821 E. Harry Wichita, KS 67218 316.677.9400 Get maps at WSUTECH.edu/Campuses</p>
COSTS*
<p>PROGRAM TOTAL \$9,132.00</p> <p>*Cost does not include online fees, books or tools. Financial Assistance may be available to those who qualify. Total calculated based on the lowest cost combination of elective credits required.</p>
PLACEMENT & WAGE DATA
<p>WSUTECH.edu/KBORplacement</p> <p>Get historical data on job placement rates and average wages from WSU Tech graduates.</p>

Certified Medication Aide, COC

CRN	COURSE NAME	CREDITS
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GRA 119	Medication Aide	5
Total		5.00

LOCATION

WSU South
 3821 E. Harry | Wichita, KS 67218
 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*

PROGRAM TOTAL **\$922.00**

*Cost does not include online fees, books or tools.
 Financial Assistance may be available to those who qualify.
 Total calculated based on the lowest cost combination of
 elective credits required.

PLACEMENT & WAGE DATA

WSUTECH.edu/KBORplacement

Get historical data on job placement rates and average wages
 from WSU Tech graduates.

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

Certified Nurse Aide, COC

<i>CRN</i>	<i>COURSE NAME</i>	<i>CREDITS</i>
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GRA 101	Certified Nurse Aide	5
Total		5.00

LOCATION

WSU South
 3821 E. Harry | Wichita, KS 67218
 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*

PROGRAM TOTAL \$922.00

*Cost does not include online fees, books or tools.
 Financial Assistance may be available to those who qualify.
 Total calculated based on the lowest cost combination of
 elective credits required.

PLACEMENT & WAGE DATA

WSUTECH.edu/KBORplacement

Get historical data on job placement rates and average wages
 from WSU Tech graduates.

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

Climate & Energy Control Technologies, AAS

CRN	COURSE NAME	CREDITS
ACR 112	HVAC Fundamentals	4
ACR 113	Electrical Fundamentals	4
ACR 116	Workplace Skills	1
ACR 117	Intro to Mechanical Refrigeration	4
ACR 118	Electrical Fundamentals II	3
ACR 119	Advanced Electrical Theory for HVAC	2
ACR 121	Heating System Fundamentals	3
ACR 122	Heating System Fundamentals II	3
ACR 123	Heat Loads and Duct Sizing	2
ACR 124	Advanced Heating Systems	3
ACR 126	EPA 608	1
ACR 127	Heat Pumps	4
ACR 128	Commercial HVAC	4
ACR 129	Commercial HVAC Lab	4
ACR 140	Sheet Metal Fabrication I	3
SAF 101	Safety Orientation/OSHA 10	1
ENG 101	Composition I	3
	Communication Elective	3
	Humanities Elective	3
	Math Elective	3
	Social Science Elective	3
Total		61.00

LOCATION

City Center
 301 S. Grove | Wichita, KS 67211
 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*

PROGRAM TOTAL **\$14,444.00**

*Cost does not include online fees, books or tools.
 Financial Assistance may be available to those who qualify.
 Total calculated based on the lowest cost combination of
 elective credits required.

PLACEMENT & WAGE DATA

WSUTECH.edu/KBORplacement

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 from WSU Tech graduates.

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Climate & Energy Control Technologies, TC

CRN	COURSE NAME	CREDITS
ACR 112	HVAC Fundamentals	4
ACR 113	Electrical Fundamentals	4
ACR 116	Workplace Skills	1
ACR 117	Intro to Mechanical Refrigeration	4
ACR 118	Electrical Fundamentals II	3
ACR 121	Heating System Fundamentals	3
ACR 122	Heating System Fundamentals II	3
ACR 123	Heat Loads and Duct Sizing	2
ACR 124	Advanced Heating Systems	3
ACR 126	EPA 608	1
ACR 127	Heat Pumps	4
ACR 128	Commercial HVAC	4
ACR 129	Commercial HVAC Lab	4
ACR 140	Sheet Metal Fabrication I	3
SAF 101	Safety Orientation/OSHA 10	1
Total		44.00

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

LOCATION
City Center 301 S. Grove Wichita, KS 67211 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*	
PROGRAM TOTAL	\$11,831.00
*Cost does not include online fees, books or tools. Financial Assistance may be available to those who qualify. Total calculated based on the lowest cost combination of elective credits required.	

PLACEMENT & WAGE DATA
WSUTECH.edu/KBORplacement
Get historical data on job placement rates and average wages from WSU Tech graduates.

Cloud Computing/Cloud Application Development, AAS

CRN	COURSE NAME	CREDITS
CLD 118	Cloud Fundamentals	3
CLD 121	Object-Oriented Programming (JavaScript)	3
CLD 122	Introduction to Web Development	3
CLD 126	Test Driven Development (JavaScript)	3
CLD 129	Programming Foundations (Swift iOS)	3
CLD 138	Object-Oriented Programming (Python)	3
CLD 143	Web Application Development I (HTML/CSS)	3
CLD 152	Web Application Development II (REACT)	3
CLD 166	Cloud Application Development I (REACT on AWS)	3
CLD 168	AWS Cloud Practitioner	3
CLD 170	Cloud Application Development II (Serverless REACT on AWS)	3
CLD	Experiential Learning - 3 Credits	3
CLD Or INF	Information Technology Electives - 12 Credits	12
ENG 101	Composition I	3
	Communication Elective	3
	Humanities Elective	3
	Math Elective	3
	Social Science Elective	3
Cloud Computing Electives		
CLD 137	C# Programming Language	
CLD 141	Test Driven Development (Python)	
CLD 147	Website Production & Management (Word Press)	
CLD 158	Multi-Cloud Development Services	
CLD 169	Machine Learning and AI Foundations with Predictive Analytics	
INF 105	CompTIA A+ Core 1	
INF 112	Network Essentials	
Experiential Learning		
CLD 175	Information Technology Internship	
CLD 174	Capstone	
Total		63.00

LOCATION

WSU South
 3821 E. Harry | Wichita, KS 67218
 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*

PROGRAM TOTAL **\$14,219.00**

*Cost does not include online fees, books or tools. Financial Assistance may be available to those who qualify. Total calculated based on the lowest cost combination of elective credits required.

PLACEMENT & WAGE DATA

WSUTECH.edu/KBORplacement

Get historical data on job placement rates and average wages from WSU Tech graduates.

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

Cloud Computing/Cloud Application Development, TC

CRN	COURSE NAME	CREDITS
CLD 118	Cloud Fundamentals	3
CLD 121	Object-Oriented Programming (JavaScript)	3
CLD 122	Introduction to Web Development	3
CLD 126	Test Driven Development (JavaScript)	3
CLD 129	Programming Foundations (Swift iOS)	3
CLD 138	Object-Oriented Programming (Python)	3
CLD 143	Web Application Development I (HTML/CSS)	3
CLD 152	Web Application Development II (REACT)	3
CLD 166	Cloud Application Development I (REACT on AWS)	3
CLD 168	AWS Cloud Practitioner	3
CLD 170	Cloud Application Development II (Serverless REACT on AWS)	3
CLD Or INF	Information Technology Electives - 12 Credits	12
CLD	Experiential Learning - 3 Credits	3
Cloud Computing Electives		
CLD 137	C# Programming Language	
CLD 141	Test Driven Development (Python)	
CLD 147	Website Production & Management (Word Press)	
CLD 158	Multi-Cloud Development Services	
CLD 169	Machine Learning and AI Foundations with Predictive Analytics	
INF 105	CompTIA A+ Core 1	
INF 112	Network Essentials	
Experiential Learning		
CLD 175	Information Technology Internship	
CLD 174	Capstone	
Total		48.00

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit [WSUTECH.edu/Checklist](https://www.wsutech.edu/Checklist) for program admission requirements.

LOCATION
<p>WSU South 3821 E. Harry Wichita, KS 67218 316.677.9400 Get maps at WSUTECH.edu/Campuses</p>
COSTS*
<p>PROGRAM TOTAL \$12,126.00</p> <p>*Cost does not include online fees, books or tools. Financial Assistance may be available to those who qualify. Total calculated based on the lowest cost combination of elective credits required.</p>
PLACEMENT & WAGE DATA
<p>WSUTECH.edu/KBORplacement</p> <p>Get historical data on job placement rates and average wages from WSU Tech graduates.</p>

Cloud Programming/Cloud Application Development, TC

CRN	COURSE NAME	CREDITS
CLD 121	Object-Oriented Programming (JavaScript)	3
CLD 126	Test Driven Development (JavaScript)	3
CLD 129	Programming Foundations (Swift iOS)	3
CLD 137	C# Programming Language	3
CLD 138	Object-Oriented Programming (Python)	3
CLD 141	Test Driven Development (Python)	3
Total		18.00

LOCATION

WSU South
 3821 E. Harry | Wichita, KS 67218
 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*

PROGRAM TOTAL **\$5,370.00**

*Cost does not include online fees, books or tools.
 Financial Assistance may be available to those who qualify.
 Total calculated based on the lowest cost combination of
 elective credits required.

PLACEMENT & WAGE DATA

WSUTECH.edu/KBORplacement

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 from WSU Tech graduates.

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CNC Operator (Machining & Manufacturing Technology), TC

CRN	COURSE NAME	CREDITS
MMG 113	Print Reading	3
MMG 116	Quality Control & Inspection	1
MMG 131	Metallurgy	1
MMG 135	Machining Fundamentals	3
MMG 155	CNC Lathe	3
MMG 156	CNC Operations	3
MMG 160	CNC Milling I	3
AVC 110	Safety/OSHA 10	1
MTH 020	Math Fundamentals	3
PDV 115	Work Ethics	2
Total		23.00

LOCATION

National Center for Aviation Training
 4004 N. Webb Road | Wichita, KS 67226
 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*

PROGRAM TOTAL **\$5,654.00**

*Cost does not include online fees, books or tools.
 Financial Assistance may be available to those who qualify.
 Total calculated based on the lowest cost combination of
 elective credits required.

PLACEMENT & WAGE DATA

WSUTECH.edu/KBORplacement

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 from WSU Tech graduates.


*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

Composite Fabrication CBE, TC

CRN	COURSE NAME	CREDITS
CFT 101	Introduction to Composites	2
CFT 106	Composite Finish Trim	2
CFT 107	Composite Assembly	2
CFT 130	Composite Fabrication Methods /Applications	2
AVC 102	Precision Instruments	1
AVC 104	Quality Control Concepts	1
AVC 105	Aircraft Familiarization	1
AVC 110	Safety/OSHA 10	1
AVC 112	Blueprint Reading	2
AVC 117	Hand & Power Tools	4
AVC 120	Introduction to Sealing	1
AVC 140	Electrical Bonding & Grounding	1
MTH 020	Math Fundamentals	3
Total		23.00

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

LOCATION	
National Center for Aviation Training 4004 N. Webb Road Wichita, KS 67226 316.677.9400 Get maps at WSUTECH.edu/Campuses	
COSTS*	
PROGRAM TOTAL	\$6,633.00
*Cost does not include online fees, books or tools. Financial Assistance may be available to those who qualify. Total calculated based on the lowest cost combination of elective credits required.	
PLACEMENT & WAGE DATA	
WSUTECH.edu/KBORplacement	
Get historical data on job placement rates and average wages from WSU Tech graduates.	

 KSDegreeStats.org

Composite Repair, TC

CRN	COURSE NAME	CREDITS
CFT 101	Introduction to Composites	2
CFT 106	Composite Finish Trim	2
CFT 107	Composite Assembly	2
CFT 130	Composite Fabrication Methods/Applications	2
CFT 140	Composite Inspection	2
CFT 141	Disassemble & Damage Removal Techniques	3
CFT 142	Composite Repair	4
CFT 143	Complex Composite Repairs	3
CFT 144	Electrical Bonding Repair	1
AVC 102	Precision Instruments	1
AVC 104	Quality Control Concepts	1
AVC 105	Aircraft Familiarization	1
AVC 107	Fundamentals for Aerospace Manufacturing	1
AVC 108	Aircraft Systems & Components	4
AVC 110	Safety/OSHA 10	1
AVC 112	Blueprint Reading	2
AVC 117	Hand & Power Tools	4
AVC 120	Introduction to Sealing	1
AVC 125	Bonding and Grounding	1
AVC 140	Electrical Bonding & Grounding	1
MTH 020	Math Fundamentals	3
	Communication Elective	3
	Humanities Elective	3
Total		48.00

LOCATION

National Center for Aviation Training
 4004 N. Webb Road | Wichita, KS 67226
 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*

PROGRAM TOTAL **\$13,943.00**

*Cost does not include online fees, books or tools.
 Financial Assistance may be available to those who qualify.
 Total calculated based on the lowest cost combination of
 elective credits required.

PLACEMENT & WAGE DATA

WSUTECH.edu/KBORplacement

Get historical data on job placement rates and average wages
 from WSU Tech graduates.


*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

Composite Technology, AAS

CRN	COURSE NAME	CREDITS
CFT 101	Introduction to Composites	2
CFT 106	Composite Finish Trim	2
CFT 107	Composite Assembly	2
CFT 130	Composite Fabrication Methods /Applications	2
CFT 140	Composite Inspection	2
CFT 141	Disassemble & Damage Removal Techniques	3
CFT 142	Composite Repair	4
CFT 143	Complex Composite Repairs	3
CFT 144	Electrical Bonding Repair	1
AVC 102	Precision Instruments	1
AVC 104	Quality Control Concepts	1
AVC 105	Aircraft Familiarization	1
AVC 107	Fundamentals for Aerospace Manufacturing	1
AVC 108	Aircraft Systems & Components	4
AVC 110	Safety/OSHA 10	1
AVC 112	Blueprint Reading	2
AVC 117	Hand & Power Tools	4
AVC 120	Introduction to Sealing	1
AVC 125	Bonding and Grounding	1
AVC 140	Electrical Bonding & Grounding	1
LEN 100	Lean for Operations	3
ENG 101	Composition I	3
	Technical Electives - 3 credits	3
	Math Elective	3
	Social Science Elective	3
	Communication Elective	3
	Humanities Elective	3
	Technical Electives	
AVC 103	Geometric Dimensioning & Tolerancing	
AVC 137	Precision Measuring	
AVC 150	Human Factors	
AVC 155	AVC 155 Aircraft Manufacturing Advanced Fastening Practices	
AVC 160	Aircraft Control Surface Rigging	
AVC 165	Technical Writing	
AVC 170	Conflict Resolution	
AVC 190	Aerospace Applied Learning	
Total		60.00

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

LOCATION	
National Center for Aviation Training 4004 N. Webb Road Wichita, KS 67226 316.677.9400 Get maps at WSUTECH.edu/Campuses	
COSTS*	
PROGRAM TOTAL	\$16,106.00
*Cost does not include online fees, books or tools. Financial Assistance may be available to those who qualify. Total calculated based on the lowest cost combination of elective credits required.	
PLACEMENT & WAGE DATA	
WSUTECH.edu/KBORplacement	
Get historical data on job placement rates and average wages from WSU Tech graduates.	

 KS DegreeStats.org

Computer Support Specialist, AAS

CRN	COURSE NAME	CREDITS
INF 105	CompTIA A+ Core 1	3
INF 110	CompTIA A+ Core 2	3
INF 112	Network Essentials	3
INF 115	Network+ Part I	3
INF 116	Network+ Part II	3
INF 120	Security+	3
INF 134	Server	3
INF 139	Cybersecurity Essentials	3
INF 142	Cloud+	3
INF 144	Virtualization	3
INF 164	Switching, Routing, and Wireless Essentials	3
INF 167	Enterprise Networking, Security, and Automation	3
INF 172	Multi-Cloud Networking	3
INF	Information Systems Electives - 6 Credits	6
INF	Experiential Learning Electives - 3 Credits	3
CED 115	Computer Applications	3
ENG 101	Composition I	3
	Communication Elective	3
	Math Elective	3
	Social Science Elective	3
Information Systems Electives		
INF 113	Introduction to Programming	
INF 136	Introduction to PowerShell	
INF 154	Ethical Hacker	
INF 160	Server Security	
INF 165	Advanced Cyber Security	
CLD 138	Object-Oriented Programming (Python)	
CLD 168	AWS Cloud Practitioner	
Experiential Learning		
INF 174	Information Technology Capstone	
INF 175	Information Technology Internship	
Total		63.00

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit [WSUTECH.edu/Checklist](https://www.wsutech.edu/Checklist) for program admission requirements.

LOCATION
<p>WSU South 3821 E. Harry Wichita, KS 67218 316.677.9400 Get maps at WSUTECH.edu/Campuses</p>
COSTS*
<p>PROGRAM TOTAL \$13,025.00</p> <p>*Cost does not include online fees, books or tools. Financial Assistance may be available to those who qualify. Total calculated based on the lowest cost combination of elective credits required.</p>
PLACEMENT & WAGE DATA
<p>WSUTECH.edu/KBORplacement</p> <p>Get historical data on job placement rates and average wages from WSU Tech graduates.</p>

Computer Support Specialist, TC

CRN	COURSE NAME	CREDITS
INF 105	CompTIA A+ Core 1	3
INF 110	CompTIA A+ Core 2	3
INF 112	Network Essentials	3
INF 115	Network+ Part I	3
INF 116	Network+ Part II	3
INF 120	Security+	3
INF 134	Server	3
INF 139	Cybersecurity Essentials	3
INF 142	Cloud+	3
INF 144	Virtualization	3
INF 164	Switching, Routing, and Wireless Essentials	3
INF 167	Enterprise Networking, Security, and Automation	3
INF 172	Multi-Cloud Networking	3
INF	Experiential Learning	3
Experiential Learning		
INF 174	Information Technology Capstone	
INF 175	Information Technology Internship	
Total		42.00

LOCATION

WSU South
 3821 E. Harry | Wichita, KS 67218
 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*

PROGRAM TOTAL \$8,884.00

*Cost does not include online fees, books or tools. Financial Assistance may be available to those who qualify. Total calculated based on the lowest cost combination of elective credits required.

PLACEMENT & WAGE DATA

WSUTECH.edu/KBORplacement

Get historical data on job placement rates and average wages from WSU Tech graduates.

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

Construction Science, AAS

CRN	COURSE NAME	CREDITS
CCP 100	Introductory Craft Skills	3
CCP 108	Construction Basics	2
CCP 112	Carpentry I	3
CCP 122	Carpentry II	4
CCP 124	Exterior Envelope	3
CCP 128	Interior Systems	2
CCP 134	Introduction to Concrete Construction	3
CCP 172	Fundamentals of Crew Leadership	2
CCP 138	Advanced Framing	3
CCP 144	Advanced Finish and Trim	3
CCP 148	Vertical and Horizontal Formwork	3
CCP 155	FEMA Doors & Hardware	1
CCP 180	Cabinet Installation	1
CCP 154	Finishing Concrete	2
CCP 168	Equipment Operation	3
CCP 185	Carpentry Internship I	3
CCP 187	Carpentry Internship II	3
SAF 101	Safety Orientation/OSHA 10	1
ENG 101	Composition I	3
	Communication Elective	3
	Humanities Elective	3
	Math Elective	3
	Social Science Elective	3
Total		60.00

LOCATION

City Center
 301 S. Grove | Wichita, KS 67211
 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*

PROGRAM TOTAL **\$14,225.00**

*Cost does not include online fees, books or tools.
 Financial Assistance may be available to those who qualify.
 Total calculated based on the lowest cost combination of
 elective credits required.

PLACEMENT & WAGE DATA

WSUTECH.edu/KBORplacement

Get historical data on job placement rates and average wages
 from WSU Tech graduates.

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

Construction Science Level 1, TC

CRN	COURSE NAME	CREDITS
SAF 101	Safety Orientation/OSHA 10	1
CCP 100	Introductory Craft Skills	3
CCP 108	Construction Basics	2
CCP 112	Carpentry I	3
CCP 122	Carpentry II	4
CCP 124	Exterior Envelope	3
CCP 134	Introduction to Concrete Construction	3
Total		19.00

LOCATION

City Center
 301 S. Grove | Wichita, KS 67211
 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*

PROGRAM TOTAL **\$5,304.00**

*Cost does not include online fees, books or tools.
 Financial Assistance may be available to those who qualify.
 Total calculated based on the lowest cost combination of
 elective credits required.

PLACEMENT & WAGE DATA

WSUTECH.edu/KBORplacement

Get historical data on job placement rates and average wages
 from WSU Tech graduates.

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

Construction Science Level 2, TC

CRN	COURSE NAME	CREDITS
CCP 100	Introductory Craft Skills	3
CCP 108	Construction Basics	2
CCP 112	Carpentry I	3
CCP 122	Carpentry II	4
CCP 124	Exterior Envelope	3
CCP 128	Interior Systems	2
CCP 134	Introduction to Concrete Construction	3
CCP 172	Fundamentals of Crew Leadership	2
CCP 138	Advanced Framing	3
CCP 144	Advanced Finish and Trim	3
CCP 148	Vertical and Horizontal Formwork	3
CCP 155	FEMA Doors & Hardware	1
CCP 180	Cabinet Installation	1
SAF 101	Safety Orientation/OSHA 10	1
Total		34.00

LOCATION

City Center
 301 S. Grove | Wichita, KS 67211
 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*

PROGRAM TOTAL **\$9,272.00**

*Cost does not include online fees, books or tools.
 Financial Assistance may be available to those who qualify.
 Total calculated based on the lowest cost combination of elective credits required.

PLACEMENT & WAGE DATA

WSUTECH.edu/KBORplacement

Get historical data on job placement rates and average wages from WSU Tech graduates.

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

Construction Science Level 3, TC

CRN	COURSE NAME	CREDITS
CCP 100	Introductory Craft Skills	3
CCP 108	Construction Basics	2
CCP 112	Carpentry I	3
CCP 122	Carpentry II	4
CCP 124	Exterior Envelope	3
CCP 128	Interior Systems	2
CCP 134	Introduction to Concrete Construction	3
CCP 172	Fundamentals of Crew Leadership	2
CCP 138	Advanced Framing	3
CCP 144	Advanced Finish and Trim	3
CCP 148	Vertical and Horizontal Formwork	3
CCP 155	FEMA Doors & Hardware	1
CCP 180	Cabinet Installation	1
CCP 154	Finishing Concrete	2
CCP 168	Equipment Operation	3
CCP 185	Carpentry Internship I	3
CCP 187	Carpentry Internship II	3
SAF 101	Safety Orientation/OSHA 10	1
Total		45.00

LOCATION

City Center
 301 S. Grove | Wichita, KS 67211
 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*

PROGRAM TOTAL **\$12,132.00**

*Cost does not include online fees, books or tools.
 Financial Assistance may be available to those who qualify.
 Total calculated based on the lowest cost combination of elective credits required.

PLACEMENT & WAGE DATA

WSUTECH.edu/KBORplacement

Get historical data on job placement rates and average wages from WSU Tech graduates.

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

Criminal Justice, AAS

CRN	COURSE NAME	CREDITS
CRJ 101	Introduction to Criminal Justice	3
CRJ 105	Criminal Investigation	3
CRJ 110	Criminal Law	3
CRJ 115	Agency Administration	3
CRJ 120	Juvenile Delinquency and Justice	3
CRJ 125	Law Enforcement Operations and Procedures	3
CRJ 130	Criminal Procedures	3
CRJ 135	Criminal Justice Interview and Report Writing	3
CRJ 140	Professional Responsibility in Criminal Justice	3
CRJ 145	Corrections	3
CRJ 155	Policing Diverse Cultures	3
CRJ 160	Internship in Criminal Justice	3
CRJ 180	KLETC or Equivalent Law Enforcement Academy Training	12
CPR 001	CPR for Healthcare Providers	1
ENG 101	Composition I	3
HIS 120	United States History since 1865	3
	Communication Elective	3
	Humanities Elective	3
	Math Elective	3
	Social Science Elective	3
Total		67.00

LOCATION

WSU South
 3821 E. Harry | Wichita, KS 67218
 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*

PROGRAM TOTAL \$9,866.00

*Cost does not include online fees, books or tools. Financial Assistance may be available to those who qualify. Total calculated based on the lowest cost combination of elective credits required.

PLACEMENT & WAGE DATA

WSUTECH.edu/KBORplacement

Get historical data on job placement rates and average wages from WSU Tech graduates.

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

Criminal Justice, TC

CRN	COURSE NAME	CREDITS
CRJ 101	Introduction to Criminal Justice	3
CRJ 105	Criminal Investigation	3
CRJ 110	Criminal Law	3
CRJ 115	Agency Administration	3
CRJ 120	Juvenile Delinquency and Justice	3
CRJ 125	Law Enforcement Operations and Procedures	3
CRJ 130	Criminal Procedures	3
CRJ 135	Criminal Justice Interview and Report Writing	3
CRJ 140	Professional Responsibility in Criminal Justice	3
CRJ 145	Corrections	3
CRJ 155	Policing Diverse Cultures	3
CRJ 160	Internship in Criminal Justice	3
CPR 001	CPR for Healthcare Providers	1
ENG 101	Composition I	3
	Communication Elective	3
	Humanities Elective	3
Total		46.00

LOCATION

WSU South
 3821 E. Harry | Wichita, KS 67218
 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*

PROGRAM TOTAL \$7,031.00

*Cost does not include online fees, books or tools.
 Financial Assistance may be available to those who qualify.
 Total calculated based on the lowest cost combination of
 elective credits required.

PLACEMENT & WAGE DATA

WSUTECH.edu/KBORplacement

Get historical data on job placement rates and average wages
 from WSU Tech graduates.

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

Criminal Justice/Technical Studies, AAS

CRN	COURSE NAME	CREDITS
CRJ 101	Introduction to Criminal Justice	3
CRJ 105	Criminal Investigation	3
CRJ 110	Criminal Law	3
CRJ 115	Agency Administration	3
CRJ 120	Juvenile Delinquency and Justice	3
CRJ 125	Law Enforcement Operations and Procedures	3
CRJ 130	Criminal Procedures	3
CRJ 135	Criminal Justice Interview and Report Writing	3
CRJ 140	Professional Responsibility in Criminal Justice	3
CRJ 145	Corrections	3
CRJ 155	Policing Diverse Cultures	3
CRJ 160	Internship in Criminal Justice	3
CPR 001	CPR for Healthcare Providers	1
BUS 104	Introduction to Business	3
BUS 121	Business Communications	3
BUS 125	Business Law	3
BUS 130	Personal Finance	3
BUS 200	Principles of Management	3
ENG 101	Composition I	3
	Communication Elective	3
	Humanities Elective	3
	Math Elective	3
	Social Science Elective	3
Total		67.00

LOCATION
WSU South 3821 E. Harry Wichita, KS 67218 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*	
PROGRAM TOTAL	\$10,206.00
*Cost does not include online fees, books or tools. Financial Assistance may be available to those who qualify. Total calculated based on the lowest cost combination of elective credits required.	

PLACEMENT & WAGE DATA
WSUTECH.edu/KBORplacement Get historical data on job placement rates and average wages from WSU Tech graduates.

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

Criminal Justice/Technical Studies, AAS

CRN	COURSE NAME	CREDITS
CRJ 101	Introduction to Criminal Justice	3
CRJ 105	Criminal Investigation	3
CRJ 110	Criminal Law	3
CRJ 115	Agency Administration	3
CRJ 120	Juvenile Delinquency and Justice	3
CRJ 125	Law Enforcement Operations and Procedures	3
CRJ 130	Criminal Procedures	3
CRJ 135	Criminal Justice Interview and Report Writing	3
CRJ 140	Professional Responsibility in Criminal Justice	3
CRJ 145	Corrections	3
CRJ 155	Policing Diverse Cultures	3
CRJ 160	Internship in Criminal Justice	3
CPR 001	CPR for Healthcare Providers	1
ENG 101	Composition I	3
	Communication Elective	3
	Math Elective	3
	Social Science Elective	3
EMS 105	Emergency Medical Technician	12
EMS 115	Tactical Medicine	3
	Humanities Elective	3
Total		67.00

LOCATION
WSU South 3821 E. Harry Wichita, KS 67218 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*
PROGRAM TOTAL \$12,616.00
*Cost does not include online fees, books or tools. Financial Assistance may be available to those who qualify. Total calculated based on the lowest cost combination of elective credits required.

PLACEMENT & WAGE DATA
WSUTECH.edu/KBORplacement
Get historical data on job placement rates and average wages from WSU Tech graduates.

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

Culinary Arts, AAS

CRN	COURSE NAME	CREDITS
CUL 105	Culinary Fundamentals	3
CUL 115	Culinary Nutrition	3
CUL 120	Modern Banquet Cookery	3
CUL 125	Baking & Pastry Skill Development	3
CUL 130	Culinary Innovation & Sustainability	3
CUL 133	Bistro Practicum I	3
CUL 135	Cuisines and Cultures of the United States	3
CUL 145	Cuisines and Cultures of the Mediterranean	3
CUL 150	Cuisines and Cultures of Northern Europe	3
CUL 155	Cuisines and Cultures of Asia	3
CUL	Culinary Arts Electives - 12 Credits	12
HEM 105	Sanitation and Safety	1
HEM 115	Introduction to the Hospitality Industry	3
ENG 101	Composition I	3
SPH 111	Interpersonal Communication	3
	Humanities Elective	3
	Math Elective	3
	Social Science Elective	3
Culinary Arts Electives		
CUL 110	Introduction to Gastronomy & Sustainability	
CUL 137	Bistro Practicum II	
CUL 140	Global Cuisines and Cultures	
CUL 143	Bistro Practicum III	
CUL 147	Bistro Practicum IV	
CUL 160	Garde Manger	
CUL 165	Culinary Arts Internship	
CUL 170	Advanced Baking: Chocolate and Confectionary Techniques	
CUL 175	Advanced Baking: Cakes and Desserts	
CUL 180	Advanced Baking: Breads and Rolls	
HEM 205	Alcohol Beverage Law	
HEM 210	Beer and Spirits	
HEM 225	Wine Fundamentals	
HEM 230	Mixology	
Total		61.00

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

LOCATION
WSU Tech NICHE 124 S. Broadway Wichita, KS 67202 316.677.9400 Get maps at WSUTECH.edu/Campuses
COSTS*
PROGRAM TOTAL \$16,655.00
*Cost does not include online fees, books or tools. Financial Assistance may be available to those who qualify. Total calculated based on the lowest cost combination of elective credits required.
PLACEMENT & WAGE DATA
WSUTECH.edu/KBORplacement
Get historical data on job placement rates and average wages from WSU Tech graduates.

Culinary Arts, TC

CRN	COURSE NAME	CREDITS
CUL 105	Culinary Fundamentals	3
CUL 115	Culinary Nutrition	3
CUL 120	Modern Banquet Cookery	3
CUL 125	Baking & Pastry Skill Development	3
CUL 133	Bistro Practicum I	3
HEM 105	Sanitation and Safety	1
HEM 115	Introduction to the Hospitality Industry	3
SPH 111	Interpersonal Communication	3
	Math Elective	3
Total		25.00

LOCATION

WSU Tech NICHE
 124 S. Broadway | Wichita, KS 67202
 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*

PROGRAM TOTAL **\$7,068.00**

*Cost does not include online fees, books or tools.
 Financial Assistance may be available to those who qualify.
 Total calculated based on the lowest cost combination of
 elective credits required.

PLACEMENT & WAGE DATA

WSUTECH.edu/KBORplacement

Get historical data on job placement rates and average wages
 from WSU Tech graduates.

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

Cyber Security, AAS

CRN	COURSE NAME	CREDITS
INF 105	CompTIA A+ Core 1	3
INF 110	CompTIA A+ Core 2	3
INF 112	Network Essentials	3
INF 113	Introduction to Programming	3
INF 115	Network+ Part I	3
INF 116	Network+ Part II	3
INF 120	Security+	3
INF 134	Server	3
INF 136	Introduction to PowerShell	3
INF 139	Cybersecurity Essentials	3
INF 154	Ethical Hacker	3
INF 160	Server Security	3
INF 165	Advanced Cyber Security	3
INF	Information Systems Electives - 6 Credits	6
INF	Experiential Learning Electives - 3 Credits	3
ENG 101	Composition I	3
CED 115	Computer Applications	3
	Communication Elective	3
	Math Elective	3
	Social Science Elective	3
Information Systems Electives		
INF 142	Cloud+	3
INF 144	Virtualization	3
INF 164	Switching, Routing, and Wireless Essentials	3
INF 167	Enterprise Networking, Security, and Automation	3
INF 172	Multi-Cloud Networking	3
CLD 138	Object -Oriented Programming (Python)	3
CLD 168	AWS Cloud Practitioner	3
Experiential Learning Electives		
INF 174	Information Technology Capstone	3
INF 175	Information Technology Internship	3
Total		63.00

LOCATION

WSU South
 3821 E. Harry | Wichita, KS 67218
 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*

PROGRAM TOTAL **\$12,925.00**

*Cost does not include online fees, books or tools.
 Financial Assistance may be available to those who qualify.
 Total calculated based on the lowest cost combination of
 elective credits required.

PLACEMENT & WAGE DATA

WSUTECH.edu/KBORplacement

Get historical data on job placement rates and average wages
 from WSU Tech graduates.

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Cyber Security, TC

CRN	COURSE NAME	CREDITS
INF 105	CompTIA A+ Core 1	3
INF 110	CompTIA A+ Core 2	3
INF 112	Network Essentials	3
INF 113	Introduction to Programming	3
INF 115	Network+ Part I	3
INF 116	Network+ Part II	3
INF 120	Security+	3
INF 134	Server	3
INF 136	Introduction to PowerShell	3
INF 139	Cybersecurity Essentials	3
INF 154	Ethical Hacker	3
INF 160	Server Security	3
INF 165	Advanced Cyber Security	3
INF	Experiential Learning Electives - 3 Credits	3
Experiential Learning Electives		
INF 174	Information Technology Capstone	
INF 175	Information Technology Internship	
Total		42.00

LOCATION

WSU South
 3821 E. Harry | Wichita, KS 67218
 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*

PROGRAM TOTAL \$9,444.00

*Cost does not include online fees, books or tools.
 Financial Assistance may be available to those who qualify.
 Total calculated based on the lowest cost combination of elective credits required.

PLACEMENT & WAGE DATA

WSUTECH.edu/KBORplacement

Get historical data on job placement rates and average wages from WSU Tech graduates.

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

Digital Marketing, AAS

CRN	COURSE NAME	CREDITS
DM 110	Introduction to Media Arts	3
DMK 120	Basic Digital Editing	3
DMK 125	Community Building and Management	3
DMK 135	Social Media Marketing and Management	3
DMK 140	Introduction to Audio/Visual Production	3
DMK 150	Search Engine Optimization & Marketing	3
DMK 155	Photography Fundamentals	2
DMK 160	Introduction to Analytics	3
DMK 163	Introduction to Digital Advertising	3
DMK	Experiential Learning Electives- 4 Credits	4
BUS 135	Introduction to Public Relations	3
BUS 140	Principles of Marketing	3
CLD 122	Introduction to Web Development	3
CLD 147	Website Production & Management (Word Press)	3
OPM 115	Introduction to Project Management	3
ENG 101	Composition I	3
ENG 120	Composition II	3
SPH 101	Public Speaking	3
	Humanities Elective	3
	Math Elective	3
Experiential Learning Electives		
DMK 170	Digital Marketing Capstone	
DMK 175	Digital Marketing Internship	
Total		60.00

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

LOCATION
WSU South 3821 E. Harry Wichita, KS 67218 316.677.9400 Get maps at WSUTECH.edu/Campuses
COSTS*
PROGRAM TOTAL \$11,826.00
*Cost does not include online fees, books or tools. Financial Assistance may be available to those who qualify. Total calculated based on the lowest cost combination of elective credits required.
PLACEMENT & WAGE DATA
WSUTECH.edu/KBORplacement
Get historical data on job placement rates and average wages from WSU Tech graduates.

Digital Marketing, TC

CRN	COURSE NAME	CREDITS
DMK 110	Introduction to Media Arts	3
DMK 120	Basic Digital Editing	3
DMK 125	Community Building and Management	3
DMK 135	Social Media Marketing and Management	3
DMK 140	Introduction to Audio/Visual Production	3
DMK 150	Search Engine Optimization & Marketing	3
DMK 155	Photography Fundamentals	2
DMK 160	Introduction to Analytics	3
DMK 163	Introduction to Digital Advertising	3
CLD 122	Introduction to Web Development	3
CLD 147	Website Production & Management (Word Press)	3
BUS 140	Principles of Marketing	3
ENG 101	Composition I	3
ENG 120	Composition II	3
Total		41.00

LOCATION
WSU South 3821 E. Harry Wichita, KS 67218 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*	
PROGRAM TOTAL	\$8,785.00
*Cost does not include online fees, books or tools. Financial Assistance may be available to those who qualify. Total calculated based on the lowest cost combination of elective credits required.	

PLACEMENT & WAGE DATA
WSUTECH.edu/KBORplacement
Get historical data on job placement rates and average wages from WSU Tech graduates.

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

Eddy Current Technician, COC

CRN	COURSE NAME	CREDITS
NDT 106	Formulations and Calculations	2
NDT 110	Eddy Current Level I	3
NDT 111	Eddy Current Level II	3
Total		8.00

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

LOCATION

National Center for Aviation Training
 4004 N. Webb Road | Wichita, KS 67226
 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*


PROGRAM TOTAL \$2,400.00

*Cost does not include online fees, books or tools. Financial Assistance may be available to those who qualify. Total calculated based on the lowest cost combination of elective credits required.

PLACEMENT & WAGE DATA

WSUTECH.edu/KBORplacement

Get historical data on job placement rates and average wages from WSU Tech graduates.

 KSDegreeStats.org

Education, AAS

CRN	COURSE NAME	CREDITS
EDU 120	Introduction to Teaching	3
EDU 140	Children's Literature	3
EDU 160	Educational Technology	3
EDU 180	Educating Exceptional Students	3
EDU 200	Classroom Management	3
EDU 220	Introduction to Teaching - Field Experience	1
EDU 235	Foundations of Writing	3
EDU 245	Foundations In Early Literacy	3
ART 100	Art Appreciation	3
BIO 110	Principles of Biology	5
BUS 130	Personal Finance	3
ENG 101	Composition I	3
ENG 120	Composition II	3
HIS 110	United States History to 1877	3
MTH 112	College Algebra	3
PSY 101	General Psychology	3
PSY 120	Developmental Psychology	3
POL 101	American Government	3
SOC 101	Principles of Sociology	3
SPH 101	Public Speaking	3
Total		60.00

LOCATION

WSU South
 3821 E. Harry | Wichita, KS 67218
 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*

PROGRAM TOTAL **\$9,120.00**

*Cost does not include online fees, books or tools.
 Financial Assistance may be available to those who qualify.
 Total calculated based on the lowest cost combination of
 elective credits required.

PLACEMENT & WAGE DATA

WSUTECH.edu/KBORplacement

Get historical data on job placement rates and average wages
 from graduates, compiled by the Kansas Board of Regents.

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

Emergency Medical Services, TC

CRN	COURSE NAME	CREDITS
EM 115	Tactical Medicine	3
EMS	Technical Elective - 12 Credits	12
CPR 001	CPR for Healthcare Providers	1
PDV 115	Work Ethics	2
Technical Electives		
EMS 103	EMT 1	
EMS 104	EMT 2	
EMS 105	Emergency Medical Technician	
Total		18.00

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

LOCATION

WSU South
 3821 E. Harry | Wichita, KS 67218
 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*


PROGRAM TOTAL \$4,824.00

*Cost does not include online fees, books or tools. Financial Assistance may be available to those who qualify. Total calculated based on the lowest cost combination of elective credits required.

PLACEMENT & WAGE DATA

WSUTECH.edu/KBORplacement

Get historical data on job placement rates and average wages from WSU Tech graduates.

 KSDegreeStats.org

Emergency Medical Technician, COC

CRN	COURSE NAME	CREDITS
EMS	Technical Electives - 12 Credits	12
Technical Electives		
EMS 103	EMT 1	
EMS 104	EMT 2	
EMS 105	Emergency Medical Technician	
Total		12.00

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

LOCATION	
WSU South 3821 E. Harry Wichita, KS 67218 316.677.9400 Get maps at WSUTECH.edu/Campuses	
COSTS*	
PROGRAM TOTAL	\$3,738.00
*Cost does not include online fees, books or tools. Financial Assistance may be available to those who qualify. Total calculated based on the lowest cost combination of elective credits required.	
PLACEMENT & WAGE DATA	
WSUTECH.edu/KBORplacement Get historical data on job placement rates and average wages from WSU Tech graduates.	

Engineering Design Technology, AAS

CRN	COURSE NAME	CREDITS
CAT 101	CATIA Part Design & Sketcher	4
CAT 103	CATIA 3D Tolerancing & Annotations	4
CAT 105	CATIA Assembly Design	4
CAT 110	CATIA Wireframe & Surfaces	4
MCD 101	Introduction to CAD I	3
MCD 102	Introduction to CAD II	2
MCD 104	Blueprint Reading for Drafting	2
MCD 106	Precision Measuring	2
MCD 115	Machine Drafting & Design	3
MCD 121	Descriptive Geometry	3
MCD 124	Advanced AutoCAD	4
MCD 137	Introduction to 3D Printing	2
MCD	Technical Electives - 3 Credits	3
ENG 101	Composition I	3
PDV 115	Work Ethics	2
	Communication Elective	3
	Humanities Elective	3
	Math Elective	3
	Science Elective	5
	Social Science Elective	3
Technical Electives		
CAT 102	CATIA Drafting	
CAT 115	CATIA Prismatic Machining	
CAT 124	CATIA Surface Machining	
MCD 130	Basic Solidworks	
MCD 133	Advanced Solidworks	
MCD 140	Drafting Technology Internship	
MCD 201	Geometric Dimensioning & Tolerance	
MCD 210	Advanced Measuring	
MCD 156	Intermediate Measuring Instruments	
Total		62.00

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

LOCATION
National Center for Aviation Training 4004 North Webb Road Wichita, KS 67226 316.677.9400 Get maps at WSUTECH.edu/Campuses
COSTS*
PROGRAM TOTAL \$15,723.00
*Cost does not include online fees, books or tools. Financial Assistance may be available to those who qualify. Total calculated based on the lowest cost combination of elective credits required.
PLACEMENT & WAGE DATA
WSUTECH.edu/KBORplacement
Get historical data on job placement rates and average wages from WSU Tech graduates.

Engineering Design Technology, TC

CRN	COURSE NAME	CREDITS
CAT 101	CATIA Part Design & Sketcher	4
CAT 103	CATIA 3D Tolerancing & Annotations	4
CAT 105	CATIA Assembly Design	4
CAT 110	CATIA Wireframe & Surfaces	4
MCD 101	Introduction to CAD I	3
MCD 102	Introduction to CAD II	2
MCD 104	Blueprint Reading for Drafting	2
MCD 106	Precision Measuring	2
MCD 115	Machine Drafting & Design	3
MCD 121	Descriptive Geometry	3
MCD 124	Advanced AutoCAD	4
MCD 137	Introduction to 3D Printing	2
PDV 115	Work Ethics	2
	Communication Elective	3
	Math Elective	3
Total		45.00

LOCATION

National Center for Aviation Training
 4004 North Webb Road | Wichita, KS 67226
 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*

PROGRAM TOTAL **\$12,856.00**

*Cost does not include online fees, books or tools.
 Financial Assistance may be available to those who qualify.
 Total calculated based on the lowest cost combination of
 elective credits required.

PLACEMENT & WAGE DATA

WSUTECH.edu/KBORplacement

Get historical data on job placement rates and average wages
 from WSU Tech graduates.

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

Healthcare Admin & Management, AAS

CRN	COURSE NAME	CREDITS
PNR 119	KSPN Fundamentals of Pharmacology and Safe Medication Administration	2
PNR 120	KSPN Foundations of Nursing	4
PNR 121	KSPN Foundations of Nursing Clinical	2
PNR 128	KSPN Nursing Care of Adults I	5
PNR 129	KSPN Nursing Care of Adults I Clinical	3
PNR 130	KSPN Maternal Child Nursing	2
PNR 131	KSPN Maternal Child Nursing Clinical	1
PNR 135	KSPN Mental Health Nursing	2
PNR 136	Transition to Nursing	2
PNR 138	KSPN Nursing Care of Adults II	5
PNR 139	KSPN Nursing Care of Adults II Clinical	2
PNR 141	KSPN Care of Aging Adults	2
PNR 166	KSPN Leadership, Roles, and Issues	2
PNR 170	Healthcare Practice Management	3
PNR 180	Healthcare Issues	3
	Technical Elective - 4 Credits	4
ALH 110	Principles of Nutrition	3
BIO 150	Human Anatomy & Physiology	5
ENG 101	Composition I	3
PSY 101	General Psychology	3
PSY 120	Developmental Psychology	3
	Communication Elective	3
	Math Elective	3
Technical Electives		
BIO 160	Microbiology	
GRA 101	Certified Nurse Aide	
PNR 175	Healthcare Management Research	
Total		67.00

LOCATION
WSU South 3821 E. Harry Wichita, KS 67218 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*	
PROGRAM TOTAL	\$17,903.00
*Cost does not include online fees, books or tools. Financial Assistance may be available to those who qualify. Total calculated based on the lowest cost combination of elective credits required.	

PLACEMENT & WAGE DATA
WSUTECH.edu/KBORplacement Get historical data on job placement rates and average wages from WSU Tech graduates.

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

Home Health Aide, COC

CRN	COURSE NAME	CREDITS
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HHA 100	Home Health Aide	2.00
Total		2.00

LOCATION

WSU South
 3821 E. Harry | Wichita, KS 67218
 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*

PROGRAM TOTAL **\$382.00**

*Cost does not include online fees, books or tools. Financial Assistance may be available to those who qualify. Total calculated based on the lowest cost combination of elective credits required.

PLACEMENT & WAGE DATA

WSUTECH.edu/KBORplacement

Get historical data on job placement rates and average wages from WSU Tech graduates.

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

Industrial Automation Machine Maintenance, TC

CRN	COURSE NAME	CREDITS
IND 105	Industrial Automation Test Equipment	3
IND 106	Direct & Alternating Current	4
IND 109	Basic Industrial Programmable Logic Controls	4
IND 111	Foundations of Manufacturing	3
IND 116	Advanced Motor Controls	3
IND 117	Variable Speed Motor Control	3
IND 121	Mechanical Systems Reliability	3
IND 123	Industrial Fluid Power	4
IND 130	Mechanical Systems	3
IND 131	Industrial Programmable Logic Controls (PLC)	3
IND 132	Industrial Process Control	3
IND 150	Manufacturing Equipment and Tools	2
	Technical Electives - 6 Credits	6
AVC 110	Safety/OSHA 10	1
	Math Elective	3
Technical Electives		
IND 139	CNC Operation for Maintenance Applications	
IND 145	Advanced Technologies in Predictive Maintenance	
ROB 100	Introduction to Robotics	
Total		48.00

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

LOCATION
City Center 301 S. Grove Wichita, KS 67211 316.677.9400 Get maps at WSUTECH.edu/Campuses
COSTS*
PROGRAM TOTAL \$12,120.00
*Cost does not include online fees, books or tools. Financial Assistance may be available to those who qualify. Total calculated based on the lowest cost combination of elective credits required.
PLACEMENT & WAGE DATA
WSUTECH.edu/KBORplacement
Get historical data on job placement rates and average wages from WSU Tech graduates.

Industrial Automation Machining Maintenance, AAS

CRN	COURSE NAME	CREDITS
IND 105	Industrial Automation Test Equipment	3
IND 106	Direct & Alternating Current	4
IND 109	Basic Industrial Programmable Logic Controls	4
IND 111	Foundations of Manufacturing	3
IND 116	Advanced Motor Controls	3
IND 117	Variable Speed Motor Control	3
IND 121	Mechanical Systems Reliability	3
IND 123	Industrial Fluid Power	4
IND 130	Mechanical Systems	3
IND 131	Industrial Programmable Logic Controls (PLC)	3
IND 132	Industrial Process Control	3
IND 150	Manufacturing Equipment and Tools	2
	Technical Electives - 6 Credits	6
AVC 110	Safety/OSHA 10	1
ENG 101	Composition I	3
	Communication Elective	3
	Humanities Elective	3
	Math Elective	3
	Social Science Elective	3
Technical Electives		
IND 139	CNC Operations for Maintenance Applications	
IND 145	Advanced Technologies in Predictive Maintenance	
ROB 100	Introduction to Robotics	
Total		60.00

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

LOCATION
City Center 301 S. Grove Wichita, KS 67211 316.677.9400 Get maps at WSUTECH.edu/Campuses
COSTS*
PROGRAM TOTAL \$13,771.00
*Cost does not include online fees, books or tools. Financial Assistance may be available to those who qualify. Total calculated based on the lowest cost combination of elective credits required.
PLACEMENT & WAGE DATA
WSUTECH.edu/KBORplacement
Get historical data on job placement rates and average wages from WSU Tech graduates.

Interior Design, AAS

CRN	COURSE NAME	CREDITS
INT 101	Interior Design Fundamentals	3
INT 105	Blueprint Reading for Interior Design	3
INT 110	Color Theory	3
INT 126	Textiles	3
INT 127	Materials for Interior Environments	3
INT 141	History of Furniture & Architecture	5
INT 155	Lighting Technologies	3
INT 160	Design Studio I	3
INT 165	Design Studio II	3
INT 166	AutoCAD for Interior Design	5
INT 168	Basic Chief Architect for Interior Design	3
INT 170	Business Practices & Portfolio Development	4
INT 173	Design Studio III	3
INT 190	Drafting for Interiors	3
INT 192	Perspective Drawing for Interior Design	3
INT 193	Rendering for Interior Design	3
INT 196	Interior Design Codes & Standards	3
INT 218	Kitchen & Bath Design	3
ART 100	Art Appreciation	3
CED 115	Computer Applications	3
ENG 101	Composition I	3
SPH 101	Public Speaking	3
	Math Elective	3
Total		74.00

LOCATION

WSU South
 3821 E. Harry | Wichita, KS 67218
 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*

PROGRAM TOTAL **\$13,257.00**

*Cost does not include online fees, books or tools.
 Financial Assistance may be available to those who qualify.
 Total calculated based on the lowest cost combination of
 elective credits required.

PLACEMENT & WAGE DATA

WSUTECH.edu/KBORplacement

Get historical data on job placement rates and average wages
 from WSU Tech graduates.

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

IT Essentials, TC

CRN	COURSE NAME	CREDITS
INF 105	CompTIA A+ Core 1	3
INF 110	CompTIA A+ Core 2	3
INF 112	Network Essentials	3
INF 115	Network+ Part I	3
INF 116	Network+ Part II	3
INF 139	Cybersecurity Essentials	3
Total		18.00

LOCATION

WSU South
 3821 E. Harry | Wichita, KS 67218
 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*

PROGRAM TOTAL **\$3,960.00**

*Cost does not include online fees, books or tools.
 Financial Assistance may be available to those who qualify.
 Total calculated based on the lowest cost combination of
 elective credits required.

PLACEMENT & WAGE DATA

WSUTECH.edu/KBORplacement

Get historical data on job placement rates and average wages
 from WSU Tech graduates.

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

Logistics and Supply Chain Management, AAS

CRN	COURSE NAME	CREDITS
LGM 101	Principles of Logistics and Supply Chain Management	3
LGM 102	Inventory Control	3
LGM 103	Contracts and Freight Claims	3
LGM 105	Warehouse Management	3
LGM 106	Transportation and Traffic Management	3
LGM 107	Introduction to Purchasing	3
LGM 108	International Logistics	3
LGM 150	Supply Chain Analytics	3
LGM	Experiential Learning Elective 3 Credits	3
BUS 104	Introduction to Business	3
OPM 115	Introduction to Project Management	3
	Electives - 9 Credits	9
ENG 101	Composition I	3
PHL 110	Ethics	3
	Communication Elective	3
	Humanities Elective	3
	Math Elective	3
	Social Science Elective	3
Experiential Learning Electives		
LGM 190	Logistics and Supply Chain Internship	
LGM 196	Capstone In Logistics & Supply Chain Management	
Electives		
ACC 105	Fundamentals of Accounting	
CED 117	Advanced Excel	
ECO 105	Principles of Macroeconomics	
ECO 110	Principles of Microeconomics	
OPM 105	Operational Management for Organizational Success	
PHR 105	Negotiations and Relationship Management	
	LEN 100 or MFG 100 Or OPM 100	
Total		60.00

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

LOCATION
National Center for Aviation Training 4004 N. Webb Road Wichita, KS 67226 316.677.9400 Get maps at WSUTECH.edu/Campuses
COSTS*
PROGRAM TOTAL \$11,030.00
*Cost does not include online fees, books or tools. Financial Assistance may be available to those who qualify. Total calculated based on the lowest cost combination of elective credits required.
PLACEMENT & WAGE DATA
WSUTECH.edu/KBORplacement
Get historical data on job placement rates and average wages from WSU Tech graduates.

Logistics and Supply Chain Management, TC

CRN	COURSE NAME	CREDITS
LGM 101	Principles of Logistics and Supply Chain Management	3
LGM 102	Inventory Control	3
LGM 105	Warehouse Management	3
LGM 106	Transportation and Traffic Management	3
LGM 108	International Logistics	3
LGM 150	Supply Chain Analytics	3
LGM	Experiential Learning Elective	3
BUS 104	Introduction to Business	3
ENG 101	Composition I	3
MTH 020	Math Fundamentals	3
Experiential Learning Electives		
LGM 190	Logistics and Supply Chain Internship	
LGM 196	Capstone In Logistics & Supply Chain Management	
Total		30.00

LOCATION

National Center for Aviation Training
 4004 N. Webb Road | Wichita, KS 67226
 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*

PROGRAM TOTAL **\$6,311.00**

*Cost does not include online fees, books or tools.
 Financial Assistance may be available to those who qualify.
 Total calculated based on the lowest cost combination of elective credits required.

PLACEMENT & WAGE DATA

WSUTECH.edu/KBORplacement

Get historical data on job placement rates and average wages from WSU Tech graduates.

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

Machining Technology (Machining & Manufacturing Technology), AAS

CRN	COURSE NAME	CREDITS
MMG 113	Print Reading	3
MMG 116	Quality Control & Inspection	1
MMG 130	Bench Work	1
MMG 131	Metallurgy	1
MMG 132	Machine Tool Processes	1
MMG 135	Machining Fundamentals	3
MMG 140	Metrology	4
MMG 154	Multi-Cell Operations	4
MMG 155	CNC Lathe	3
MMG 156	CNC Operations	3
MMG 160	CNC Milling I	3
MMG 164	Advanced Machining Processes	3
MMG 170	Mastercam Mill 2 Axis	4
MMG 173	G D & T for Machining	3
MMG 180	Mastercam 4 & 5 Axis Mill	4
MMG 184	Multi-Axis Milling	4
AVC 110	Safety/OSHA 10	1
ENG 101	Composition I	3
MCD 106	Precision Measuring	2
PDV 115	Work Ethics	2
	Communication Elective	3
	Humanities Elective	3
	Math Elective	3
	Social Science Elective	3
Total		65.00

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

LOCATION
National Center for Aviation Training 4004 N. Webb Road Wichita, KS 67226 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*
PROGRAM TOTAL \$15,124.00
*Cost does not include online fees, books or tools. Financial Assistance may be available to those who qualify. Total calculated based on the lowest cost combination of elective credits required.

PLACEMENT & WAGE DATA
WSUTECH.edu/KBORplacement
Get historical data on job placement rates and average wages from WSU Tech graduates.

Machining Technology (Machining & Manufacturing Technology), TC

CRN	COURSE NAME	CREDITS
MMG 113	Print Reading	3
MMG 116	Quality Control & Inspection	1
MMG 130	Bench Work	1
MMG 131	Metallurgy	1
MMG 135	Machining Fundamentals	3
MMG 140	Metrology	4
MMG 155	CNC Lathe	3
MMG 156	CNC Operations	3
MMG 160	CNC Milling I	3
MMG 170	Mastercam Mill 2 Axis	4
MMG 184	Multi-Axis Milling	4
AVC 110	Safety/OSHA 10	1
MCD 106	Precision Measuring	2
MTH 020	Math Fundamentals	3
PDV 115	Work Ethics	2
Total		38.00

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

LOCATION
National Center for Aviation Training 4004 N. Webb Road Wichita, KS 67226 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*
PROGRAM TOTAL \$9,604.00
*Cost does not include online fees, books or tools. Financial Assistance may be available to those who qualify. Total calculated based on the lowest cost combination of elective credits required.

PLACEMENT & WAGE DATA
WSUTECH.edu/KBORplacement
Get historical data on job placement rates and average wages from WSU Tech graduates.

Magnetic Particle Technician, COC

CRN	COURSE NAME	CREDITS
NDT 106	Formulations and Calculations	2
NDT 101	Magnetic Particle Testing	3
NDT 114	Visual Inspection	2
Total		7.00

LOCATION

National Center for Aviation Training
 4004 N. Webb Road | Wichita, KS 67226
 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*

PROGRAM TOTAL \$2,100.00

*Cost does not include online fees, books or tools.
 Financial Assistance may be available to those who qualify.
 Total calculated based on the lowest cost combination of
 elective credits required.

PLACEMENT & WAGE DATA

WSUTECH.edu/KBORplacement

Get historical data on job placement rates and average wages
 from WSU Tech graduates.

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

Manufacturing Assembly, TC

CRN	COURSE NAME	CREDITS
MNF 110	CNC Basics	2
MNF 113	Blueprint Basics For Manufacturing	2
MNF 115	Forklift Operations	1
MNF 120	Manufacturing Processes & Production I	3
MNF 125	Maintenance Training	4
MNF 130	Manufacturing Processes & Production II	3
MNF 163	Production Assembly	3
AVC 104	Quality Control Concepts	1
AVC 110	Safety/OSHA 10	1
AVC 135	Hand Tools	1
AVC 145	Power Island	1
MCD 106	Precision Measuring	2
MCD 137	Introduction to 3D Printing	2
MMG 131	Metallurgy	1
MTH 020	Math Fundamentals	3
PDV 115	Work Ethics	2
Total		32.00

LOCATION

National Center for Aviation Training
 4004 N. Webb Road | Wichita, KS 67226
 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*

PROGRAM TOTAL **\$7,763.00**

*Cost does not include online fees, books or tools.
 Financial Assistance may be available to those who qualify.
 Total calculated based on the lowest cost combination of
 elective credits required.

PLACEMENT & WAGE DATA

WSUTECH.edu/KBORplacement


Get historical data on job placement rates and average wages
 from WSU Tech graduates.

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

Manufacturing Production and Maintenance, AAS

CRN	COURSE NAME	CREDITS
MNF 110	CNC Basics	2
MNF 113	Blueprint Basics For Manufacturing	2
MNF 115	Forklift Operations	1
MNF 120	Manufacturing Processes & Production I	3
MNF 125	Maintenance Training	4
MNF 130	Manufacturing Processes & Production II	3
MNF 160	Manufacturing Processes & Production III	3
MNF 163	Production Assembly	3
MNF	Manufacturing Technology Elective - 10 Credits	10
AVC 104	Quality Control Concepts	1
AVC 110	Safety/OSHA 10	1
AVC 135	Hand Tools	1
AVC 145	Power Island	1
MCD 106	Precision Measuring	2
MCD 137	Introduction to 3D Printing	2
MMG 131	Metallurgy	1
ROB 100	Introduction to Robotics	3
ENG 101	Composition I	3
PDV 115	Work Ethics	2
	Math Elective	3
	Communication Elective	3
	Humanities Elective	3
	Social Science Elective	3
Manufacturing Technology Electives		
MNF 155	Digital Electronics	
MNF 165	Automated Supply Chain	
MNF 170	Drones and Data Analysis	
MNF 175	Manufacturing Technology Applied Learning Experience	
MNF 135	Electrical Concepts	
MNF 140	Basic PLC's	
MNF 145	Fluid	
MNF 150	Automation in Manufacturing	
Total		60.00

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

LOCATION	
National Center for Aviation Training 4004 N. Webb Road Wichita, KS 67226 316.677.9400 Get maps at WSUTECH.edu/Campuses	
COSTS*	
PROGRAM TOTAL	\$13,663.00
*Cost does not include online fees, books or tools. Financial Assistance may be available to those who qualify. Total calculated based on the lowest cost combination of elective credits required.	
PLACEMENT & WAGE DATA	
WSUTECH.edu/KBORplacement	
Get historical data on job placement rates and average wages from WSU Tech graduates.	
 KS DegreeStats.org	

Manufacturing Production And Maintenance, TC

CRN	COURSE NAME	CREDITS
MNF 110	CNC Basics	2
MNF 113	Blueprint Basics For Manufacturing	2
MNF 115	Forklift Operations	1
MNF 120	Manufacturing Processes & Production I	3
MNF 125	Maintenance Training	4
MNF 130	Manufacturing Processes & Production II	3
MNF 135	Electrical Concepts	3
MNF 150	Automation in Manufacturing	3
MNF 140	Basic PLC's	3
MNF 145	Fluid	2
MNF 160	Manufacturing Processes & Production III	3
MNF 163	Production Assembly	3
MNF	Manufacturing Technology Elective - 3 Credits	3
AVC 104	Quality Control Concepts	1
AVC 110	Safety/OSHA 10	1
AVC 135	Hand Tools	1
AVC 145	Power Island	1
MCD 106	Precision Measuring	2
MCD 137	Introduction to 3D Printing	2
MMG 131	Metallurgy	1
ROB 100	Introduction to Robotics	3
PDV 115	Work Ethics	2
	Math Elective	3
Manufacturing Technology Electives		
MNF 155	Digital Electronics	
MNF 165	Automated Supply Chain	
MNF 170	Drones and Data Analysis	
MNF 175	Manufacturing Technology Applied Learning Experience	
Total		52.00

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

LOCATION
National Center for Aviation Training 4004 N. Webb Road Wichita, KS 67226 316.677.9400 Get maps at WSUTECH.edu/Campuses
COSTS*
PROGRAM TOTAL \$13,015.00
*Cost does not include online fees, books or tools. Financial Assistance may be available to those who qualify. Total calculated based on the lowest cost combination of elective credits required.
PLACEMENT & WAGE DATA
WSUTECH.edu/KBORplacement
Get historical data on job placement rates and average wages from WSU Tech graduates.

Manufacturing Production, TC

CRN	COURSE NAME	CREDITS
MNF 110	CNC Basics	2
MNF 113	Blueprint Basics For Manufacturing	2
MNF 115	Forklift Operations	1
MNF 120	Manufacturing Processes & Production I	3
MNF 125	Maintenance Training	4
MNF 130	Manufacturing Processes & Production II	3
MNF 163	Production Assembly	3
AVC 104	Quality Control Concepts	1
AVC 110	Safety/OSHA 10	1
AVC 135	Hand Tools	1
AVC 145	Power Island	1
MCD 106	Precision Measuring	2
MCD 137	Introduction to 3D Printing	2
PDV 115	Work Ethics	2
MMG 131	Metallurgy	1
	Math Elective	3
Total		32.00

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

LOCATION
National Center for Aviation Training 4004 N. Webb Road Wichita, KS 67226 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*
PROGRAM TOTAL \$7,695.00
*Cost does not include online fees, books or tools. Financial Assistance may be available to those who qualify. Total calculated based on the lowest cost combination of elective credits required.

PLACEMENT & WAGE DATA
WSUTECH.edu/KBORplacement
Get historical data on job placement rates and average wages from WSU Tech graduates.

Manufacturing Technology, AAS

CRN	COURSE NAME	CREDITS
MNF 113	Blueprint Basics For Manufacturing	2
MNF 115	Forklift Operations	1
MNF 120	Manufacturing Processes & Production I	3
AVC 104	Quality Control Concepts	1
AVC 110	Safety/OSHA 10	1
AVC 135	Hand Tools	1
AVC 145	Power Island	1
MCD 106	Precision Measuring	2
	Technical Electives - 31 Credits	31
PDV 115	Work Ethics	2
ENG 101	Composition I	3
	Communication Elective	3
	Humanities Elective	3
	Math Elective	3
	Social Science Elective	3
Manufacturing Technology Electives		
MNF 110	CNC Basics	
MNF 125	Maintenance Training	
MNF 130	Manufacturing Processes & Production II	
MNF 135	Electrical Concepts	
MNF 145	Fluid	
MNF 140	Basic PLC's	
MNF 150	Automation in Manufacturing	
MNF 155	Digital Electronics	
MNF 160	Manufacturing Processes & Production III	
MNF 163	Production Assembly	
MNF 165	Automated Supply Chain	
MNF 170	Drones and Data Analysis	
MNF 175	Manufacturing Technology Applied Learning Experience	
MNF 147	Introduction to Kitting	
MNF 157	Lean/Six Sigma	
MMG 131	Metallurgy	
MCD 130	Basic Solidworks	
MCD 137	Introduction to 3D Printing	
ROB 100	Introduction to Robotics	
Total		60.00

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

LOCATION
National Center for Aviation Training 4004 N. Webb Road Wichita, KS 67226 316.677.9400 Get maps at WSUTECH.edu/Campuses
COSTS*
PROGRAM TOTAL \$13,352.00
*Cost does not include online fees, books or tools. Financial Assistance may be available to those who qualify. Total calculated based on the lowest cost combination of elective credits required.
PLACEMENT & WAGE DATA
WSUTECH.edu/KBORplacement
Get historical data on job placement rates and average wages from WSU Tech graduates.

Manufacturing Technology (Assembly), AAS

CRN	COURSE NAME	CREDITS
MNF 110	CNC Basics	2
MNF 113	Blueprint Basics For Manufacturing	2
MNF 115	Forklift Operations	1
MNF 120	Manufacturing Processes & Production I	3
MNF 125	Maintenance Training	4
MNF 130	Manufacturing Processes & Production II	3
MNF 163	Production Assembly	3
MNF 147	Introduction to Kitting	4
MNF 157	Lean/Six Sigma	3
AVC 104	Quality Control Concepts	1
AVC 110	Safety/OSHA 10	1
AVC 135	Hand Tools	1
AVC 145	Power Island	1
MCD 106	Precision Measuring	2
MCD 130	Basic Solidworks	3
MCD 137	Introduction to 3D Printing	2
MMG 131	Metallurgy	1
ROB 100	Introduction to Robotics	3
	Technical Elective - 3 Credits	3
PDV 115	Work Ethics	2
ENG 101	Composition I	3
	Communication Elective	3
	Humanities Elective	3
	Math Elective	3
	Social Science Elective	3
Manufacturing Technology Electives		
MNF 135	Electrical Concepts	
MNF 145	Fluid	
MNF 140	Basic PLC's	
MNF 150	Automation in Manufacturing	
MNF 155	Digital Electronics	
MNF 160	Manufacturing Processes & Production III	
MNF 165	Automated Supply Chain	
MNF 170	Drones and Data Analysis	
MNF 175	Manufacturing Technology Applied Learning Experience	
Total		60.00

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

LOCATION
National Center for Aviation Training 4004 N. Webb Road Wichita, KS 67226 316.677.9400 Get maps at WSUTECH.edu/Campuses
COSTS*
PROGRAM TOTAL \$13,645.00
*Cost does not include online fees, books or tools. Financial Assistance may be available to those who qualify. Total calculated based on the lowest cost combination of elective credits required.
PLACEMENT & WAGE DATA
WSUTECH.edu/KBORplacement
Get historical data on job placement rates and average wages from WSU Tech graduates.

Manufacturing Technology Core, TC

CRN	COURSE NAME	CREDITS
MNF 113	Blueprint Basics For Manufacturing	2
MNF 115	Forklift Operations	1
MNF 120	Manufacturing Processes & Production I	3
AVC 104	Quality Control Concepts	1
AVC 110	Safety/OSHA 10	1
AVC 135	Hand Tools	1
AVC 145	Power Island	1
MCD 106	Precision Measuring	2
MTH 020	Math Fundamentals	3
PDV 115	Work Ethics	2
Total		17.00

LOCATION

National Center for Aviation Training
 4004 N. Webb Road | Wichita, KS 67226
 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*

PROGRAM TOTAL **\$3,863.00**

*Cost does not include online fees, books or tools.
 Financial Assistance may be available to those who qualify.
 Total calculated based on the lowest cost combination of
 elective credits required.

PLACEMENT & WAGE DATA

WSUTECH.edu/KBORplacement

Get historical data on job placement rates and average wages
 from WSU Tech graduates.

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

Mobile Equipment Technology, AAS

CRN	COURSE NAME	CREDITS
EQP 121	Diesel Engine Repair	4
EQP 132	Fuel & Exhaust Systems	3
EQP 134	Machine Specific Systems	1
EQP 135	Mobile Equipment Diagnostics Test	3
EQP 180	Fluid Power	4
EQP 206	Powertrain Systems	4
EQP 210	Dealership Fundamentals	2
EQP 220	Advanced Fluid Power	2
TAS 105	Orientation to the Transportation Industry	1
TAS 124	Electrical I	3
TAS 125	Electrical II	3
TAS 128	Heating & Air Conditioning	4
TAS 131	Engine Performance I	3
TAS 133	Brakes I	3
TAS 136	Suspension and Steering I	3
TAS 160	Transportation Industry Safety	1
TAS 225	Electrical III	2
ENG 101	Composition I	3
	Communication Elective	3
	Humanities Elective	3
	Math Elective	3
	Social Science Elective	3
Total		61.00

LOCATION

City Center
 301 S. Grove | Wichita, KS 67211
 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*

PROGRAM TOTAL **\$14,053.00**

*Cost does not include online fees, books or tools.
 Financial Assistance may be available to those who qualify.
 Total calculated based on the lowest cost combination of elective credits required.

PLACEMENT & WAGE DATA

WSUTECH.edu/KBORplacement

Get historical data on job placement rates and average wages from WSU Tech graduates.

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

Mobile Equipment Technology, TC

CRN	COURSE NAME	CREDITS
EQP 121	Diesel Engine Repair	4
EQP 132	Fuel & Exhaust Systems	3
EQP 134	Machine Specific Systems	1
EQP 135	Mobile Equipment Diagnostics Test	3
EQP 180	Fluid Power	4
EQP 206	Powertrain Systems	4
EQP 210	Dealership Fundamentals	2
EQP 220	Advanced Fluid Power	2
TAS 105	Orientation to the Transportation Industry	1
TAS 124	Electrical I	3
TAS 125	Electrical II	3
TAS 128	Heating & Air Conditioning	4
TAS 131	Engine Performance I	3
TAS 133	Brakes I	3
TAS 136	Suspension and Steering I	3
TAS 160	Transportation Industry Safety	1
TAS 225	Electrical III	2
	Math Elective	3
Total		49.00

LOCATION

City Center
 301 S. Grove | Wichita, KS 67211
 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*

PROGRAM TOTAL **\$12,365.00**

*Cost does not include online fees, books or tools.
 Financial Assistance may be available to those who qualify.
 Total calculated based on the lowest cost combination of elective credits required.

PLACEMENT & WAGE DATA

WSUTECH.edu/KBORplacement

Get historical data on job placement rates and average wages from WSU Tech graduates.

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

Multi Axis Machining (Machining & Manufacturing Technology), TC

CRN	COURSE NAME	CREDITS
MMG 113	Print Reading	3
MMG 116	Quality Control & Inspection	1
MMG 130	Bench Work	1
MMG 131	Metallurgy	1
MMG 132	Machine Tool Processes	1
MMG 135	Machining Fundamentals	3
MMG 140	Metrology	4
MMG 154	Multi-Cell Operations	4
MMG 155	CNC Lathe	3
MMG 156	CNC Operations	3
MMG 160	CNC Milling I	3
MMG 164	Advanced Machining Processes	3
MMG 170	Mastercam Mill 2 Axis	4
MMG 173	G D & T for Machining	3
MMG 180	Mastercam 4 & 5 Axis Mill	4
MMG 184	Multi-Axis Milling	4
AVC 110	Safety/OSHA 10	1
MCD 106	Precision Measuring	2
PDV 115	Work Ethics	2
	Math Elective	3
Total		53.00

LOCATION

National Center for Aviation Training
 4004 N. Webb Road | Wichita, KS 67226
 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*

PROGRAM TOTAL **\$13,436.00**

*Cost does not include online fees, books or tools.
 Financial Assistance may be available to those who qualify.
 Total calculated based on the lowest cost combination of
 elective credits required.

PLACEMENT & WAGE DATA

WSUTECH.edu/KBORplacement

Get historical data on job placement rates and average wages
 from WSU Tech graduates.

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

Nondestructive Testing, AAS

CRN	COURSE NAME	CREDITS
NDT 100	Penetrant Inspection	3
NDT 101	Magnetic Particle Testing	3
NDT 102	Radiation Safety	3
NDT 103	Radiographic Testing Level II	3
NDT 107	Radiographic Testing Level I	3
NDT 110	Eddy Current Level I	3
NDT 111	Eddy Current Level II	3
NDT 112	Ultrasonic Testing Method Level I	3
NDT 113	Ultrasonic Testing Method Level II	3
NDT 114	Visual Inspection	2
NDT 123	Advanced Ultrasonic Testing Methods	5
NDT 106	Formulations and Calculations	2
AVC 102	Precision Instruments	1
AVC 110	Safety/OSHA 10	1
CFT 101	Introduction to Composites	2
ENG 101	Composition I	3
PHS 110	Physical Science	5
	Communication Elective	3
	Humanities Elective	3
	Math Elective	3
	Social Science Elective	3
Total		60.00

LOCATION

National Center for Aviation Training
 4004 N. Webb Road | Wichita, KS 67226
 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*

PROGRAM TOTAL **\$14,916.00**

*Cost does not include online fees, books or tools.
 Financial Assistance may be available to those who qualify.
 Total calculated based on the lowest cost combination of
 elective credits required.

PLACEMENT & WAGE DATA

WSUTECH.edu/KBORplacement

Get historical data on job placement rates and average wages
 from WSU Tech graduates.

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

Nondestructive Testing, TC

CRN	COURSE NAME	CREDITS
NDT 100	Penetrant Inspection	3
NDT 101	Magnetic Particle Testing	3
NDT 102	Radiation Safety	3
NDT 103	Radiographic Testing Level II	3
NDT 107	Radiographic Testing Level I	3
NDT 110	Eddy Current Level I	3
NDT 111	Eddy Current Level II	3
NDT 112	Ultrasonic Testing Method Level I	3
NDT 113	Ultrasonic Testing Method Level II	3
NDT 114	Visual Inspection	2
NDT 123	Advanced Ultrasonic Testing Methods	5
NDT 106	Formulations and Calculations	2
AVC 102	Precision Instruments	1
AVC 110	Safety/OSHA 10	1
CFT 101	Introduction to Composites	2
	Humanities Elective	3
Total		43.00

LOCATION

National Center for Aviation Training
 4004 N. Webb Road | Wichita, KS 67226
 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*

PROGRAM TOTAL **\$12,485.00**

*Cost does not include online fees, books or tools.
 Financial Assistance may be available to those who qualify.
 Total calculated based on the lowest cost combination of
 elective credits required.

PLACEMENT & WAGE DATA

WSUTECH.edu/KBORplacement

Get historical data on job placement rates and average wages
 from WSU Tech graduates.

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

Operations Management And Supervision, AAS

CRN	COURSE NAME	CREDITS
ACC 105	Fundamentals of Accounting	3
ACC 160	Principles of Accounting I	3
ACC 170	Principles of Accounting II	3
BUS 104	Introduction to Business	3
BUS 125	Business Law	3
BUS 140	Principles of Marketing	3
BUS 200	Principles of Management	3
ECO 105	Principles of Macroeconomics	3
ECO 110	Principles of Microeconomics	3
HIS 120	United States History since 1865	3
ENG 101	Composition I	3
LEN 100	Lean for Operations	3
LGM 101	Principles of Logistics and Supply Chain Management	3
OPM 105	Operations Management for Organizational Success	3
OPM 115	Introduction to Project Management	3
MTH 112	College Algebra	3
PSY 101	General Psychology	3
SPH 101	Public Speaking	3
	Humanities Elective	3
	Science Elective	5
Total		62.00

LOCATION

WSU South
 3821 E. Harry | Wichita, KS 67218
 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*

PROGRAM TOTAL \$9,672.00

*Cost does not include online fees, books or tools.
 Financial Assistance may be available to those who qualify.
 Total calculated based on the lowest cost combination of elective credits required.

PLACEMENT & WAGE DATA

WSUTECH.edu/KBORplacement

Get historical data on job placement rates and average wages from WSU Tech graduates.

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

Operations Management And Supervision, TC

CRN	COURSE NAME	CREDITS
ACC 105	Fundamentals of Accounting	3
ACC 160	Principles of Accounting I	3
ACC 170	Principles of Accounting II	3
BUS 104	Introduction to Business	3
BUS 125	Business Law	3
BUS 200	Principles of Management	3
LGM 101	Principles of Logistics and Supply Chain Management	3
OPM 105	Operations Management for Organizational Success	3
OPM 115	Introduction to Project Management	3
SPH 101	Public Speaking	3
	Humanities Elective	3
Total		33.00

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

LOCATION	
WSU South 3821 E. Harry Wichita, KS 67218 316.677.9400 Get maps at WSUTECH.edu/Campuses	
COSTS*	
PROGRAM TOTAL	\$5,281.00
*Cost does not include online fees, books or tools. Financial Assistance may be available to those who qualify. Total calculated based on the lowest cost combination of elective credits required.	
PLACEMENT & WAGE DATA	
WSUTECH.edu/KBORplacement Get historical data on job placement rates and average wages from WSU Tech graduates.	

Patient Care Technician, TC

CRN	COURSE NAME	CREDITS
PCT 100	EKG for Healthcare Providers	4
PCT 110	Phlebotomy and Laboratory Procedures	4
PCT 130	Patient Care Concepts and Technical Skills	3
ALH 101	Medical Terminology	3
CPR 001	CPR for Healthcare Providers	1
GRA 101	Certified Nurse Aide	5
Total		20.00

LOCATION

WSU South
 3821 E. Harry | Wichita, KS 67218
 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*

PROGRAM TOTAL \$4,500.00

*Cost does not include online fees, books or tools.
 Financial Assistance may be available to those who qualify.
 Total calculated based on the lowest cost combination of elective credits required.

PLACEMENT & WAGE DATA

WSUTECH.edu/KBORplacement

Get historical data on job placement rates and average wages from WSU Tech graduates.

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

Penetrant Technician, COC

CRN	COURSE NAME	CREDITS
NDT 114	Visual Inspection	2
NDT 100	Penetrant Inspection	3
Total		5.00

LOCATION

National Center for Aviation Training
 4004 N. Webb Road | Wichita, KS 67226
 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*

PROGRAM TOTAL \$1,500.00

*Cost does not include online fees, books or tools.
 Financial Assistance may be available to those who qualify.
 Total calculated based on the lowest cost combination of
 elective credits required.

PLACEMENT & WAGE DATA

WSUTECH.edu/KBORplacement

Get historical data on job placement rates and average wages
 from WSU Tech graduates.

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

Practical Nurse, TC

CRN	COURSE NAME	CREDITS
PNR 119	KSPN Fundamentals of Pharmacology and Safe Medication Administration	2
PNR 120	KSPN Foundations of Nursing	4
PNR 121	KSPN Foundations of Nursing Clinical	2
PNR 128	KSPN Nursing Care of Adults I	5
PNR 129	KSPN Nursing Care of Adults I Clinical	3
PNR 130	KSPN Maternal Child Nursing	2
PNR 131	KSPN Maternal Child Nursing Clinical	1
PNR 135	KSPN Mental Health Nursing	2
PNR 136	Transition to Nursing	2
PNR 138	KSPN Nursing Care of Adults II	5
PNR 139	KSPN Nursing Care of Adults II Clinical	2
PNR 141	KSPN Care of Aging Adults	2
PNR 166	KSPN Leadership, Roles, and Issues	2
ALH 110	Principles of Nutrition	3
BIO 150	Human Anatomy & Physiology	5
PSY 101	General Psychology	3
PSY 120	Developmental Psychology	3
Total		48.00

LOCATION

WSU South
 3821 E. Harry | Wichita, KS 67218
 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*

PROGRAM TOTAL **\$13,688.00**

*Cost does not include online fees, books or tools. Financial Assistance may be available to those who qualify. Total calculated based on the lowest cost combination of elective credits required.

PLACEMENT & WAGE DATA

WSUTECH.edu/KBORplacement

Get historical data on job placement rates and average wages from WSU Tech graduates.

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

Process Mechanic Painter, TC

CRN	COURSE NAME	CREDITS
ACP 100	Introduction to Coatings & Paint Technology	3
ACP 101	Surface Preparation & Coatings	4
ACP 104	Specialized Coatings Processes	3
ACP 145	Environmental Health and Safety	2
AVC 110	Safety/OSHA 10	1
AVC 112	Blueprint Reading	2
MTH 020	Math Fundamentals	3
Total		18.00

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

LOCATION

National Center for Aviation Training
 4004 N. Webb Road | Wichita, KS 67226
 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*


PROGRAM TOTAL \$5,333.00

*Cost does not include online fees, books or tools. Financial Assistance may be available to those who qualify. Total calculated based on the lowest cost combination of elective credits required.

PLACEMENT & WAGE DATA

WSUTECH.edu/KBORPlacement

Get historical data on job placement rates and average wages from WSU Tech graduates.

 KS DegreeStats.org

Professional Pilot, AAS

CRN	COURSE NAME	CREDITS
PLT 104	Introduction to Aviation	3
PLT 112	Private Pilot Flight Lab	3
PLT 116	Aviation Weather	3
PLT 120	Instrument Regulations and Procedures	3
PLT 126	Aviation Standardization and Career Paths	2
PLT 128	Instrumental Flight Lab	3
PLT 130	Aerodynamics and Aircraft Performance	2
PLT 132	Aviation Safety and Human Factors	3
PLT 134	Aircraft Systems for Pilots	2
PLT 136	Crew Resource Management	2
PLT 144	Introduction to Commercial Flight	3
PLT 146	Air Traffic Control and Airspace	2
PLT 152	Commercial Flight Lab	3
PLT 154	Aviation Law and Regulations	2
PLT 156	Multiengine Aircraft Operation	1
PLT 160	Multiengine Flight Lab	2
PLT 168	Certified Flight Instruction	4
PLT 176	Certified Flight Instruction Lab	2
ENG 101	Composition I	3
	Communication Elective	3
	Humanities Elective	3
	Math Elective	3
	Social Science Elective	3
Total		60.00

LOCATION

National Center for Aviation Training
 4004 N. Webb Road | Wichita, KS 67226
 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*

*Cost does not include online fees, books or tools. Financial Assistance may be available to those who qualify. Total calculated based on the lowest cost combination of elective credits required.

AAS Flight Hours and Estimated Costs

License/ Rating	Minimum Flight Hours	Estimated Student Flight Fees*
Semester one Private Pilot	45	\$13,753
Semester two Instrument Pilot	40	\$10,343
Semester three Commercial Pilot	120	\$31,201
Semester four Multiengine	20	\$11,100
Semester four Certified Flight Instructor	25	\$7,400

Tuition and Fees	\$17,325.00
Flight Hours	\$75,724.00
Program Total	\$93,049.00

WSUTECH.edu/KBORplacement

Get historical data on job placement rates and average wages from WSU Tech graduates.

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

Radiography Technician, COC

CRN	COURSE NAME	CREDITS
NDT 106	Formulations and Calculations	2
NDT 102	Radiation Safety	3
NDT 107	Radiographic Testing Level I	3
NDT 103	Radiographic Testing Level II	3
Total		11.00

LOCATION

National Center for Aviation Training
 4004 N. Webb Road | Wichita, KS 67226
 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*

PROGRAM TOTAL \$3,300.00

*Cost does not include online fees, books or tools.
 Financial Assistance may be available to those who qualify.
 Total calculated based on the lowest cost combination of
 elective credits required.

PLACEMENT & WAGE DATA


WSUTECH.edu/KBORplacement

Get historical data on job placement rates and average wages
 from WSU Tech graduates.

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

Registered Nurse, AAS

CRN	COURSE NAME	CREDITS
ADN 120	Introduction to Nursing Concepts	1
ADN	Technical Electives - 16 Credits (ADN 130, 140, 150, 160, 170 Or ADN 110 and LPN Courses)	20
ADN 180	Client Care Concepts II	6
ADN 190	Professional Nursing Concepts II	4
ADN 200	Client Care Concepts III	6
ADN 210	Transition to Practice	4
	Electives - 9 Credits	9
BIO 150	Human Anatomy & Physiology	5
ALH 175	Pathophysiology	4
ENG 101	Composition I	3
PSY 101	General Psychology	3
Technical Electives		
ADN 140	Pharmacological Concepts in Nursing I	
ADN 130	Foundational Concepts in Nursing	
ADN 150	Professional Nursing Concepts I	
ADN 160	Client Care Concepts I	
ADN 170	Pharmacological Concepts in Nursing II	
ADN 110	Concepts of Professional Nursing: Transitioning from LPN to RN	
LPN Courses - 16 Credits (PNR 166, 139, 138, 130, 131, 135, 141)		
Electives		
ALH 110	Principles of Nutrition	
SOC 101	Principles of Sociology	
PSY 120	Developmental Psychology	
ALH 101	Medical Terminology	
Total		65.00
*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.		

LOCATION
<p>WSU South 3821 E. Harry Wichita, KS 67218 316.677.9400 Get maps at WSUTECH.edu/Campuses</p>
COSTS*
<p>PROGRAM TOTAL \$17,241.00</p> <p>*Cost does not include online fees, books or tools. Financial Assistance may be available to those who qualify. Total calculated based on the lowest cost combination of elective credits required.</p>
PLACEMENT & WAGE DATA
<p>WSUTECH.edu/KBORPlacement</p> <p>Get historical data on job placement rates and average wages from WSU Tech graduates.</p>


Registered Nurse - Bridge Program, AAS

CRN	COURSE NAME	CREDITS
ADN 110	Concepts of Professional Nursing: Transitioning from LPN to RN	4
ADN 120	Introduction to Nursing Concepts	1
ADN 180	Client Care Concepts II	6
ADN 190	Professional Nursing Concepts II	4
ADN 200	Client Care Concepts III	6
ADN 210	Transition to Practice	4
	LPN Transfer Credits (16 Credits)	16
	Electives - 9 Credits	9
BIO 150	Human Anatomy & Physiology	5
ALH 175	Pathophysiology	4
ENG 101	Composition I	3
PSY 101	General Psychology	3
Electives		
ALH 110	Principles of Nutrition	
SOC 101	Principles of Sociology	
PSY 120	Developmental Psychology	
ALH 101	Medical Terminology	
Total		65.00

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

LOCATION
<p>WSU South 3821 E. Harry Wichita, KS 67218 316.677.9400 Get maps at WSUTECH.edu/Campuses</p>
COSTS*
<p>PROGRAM TOTAL \$12,866.00</p> <p>*Cost does not include online fees, books or tools. Financial Assistance may be available to those who qualify. Total calculated based on the lowest cost combination of elective credits required.</p>
PLACEMENT & WAGE DATA
<p>WSUTECH.edu/KBORPlacement</p> <p>Get historical data on job placement rates and average wages from WSU Tech graduates.</p>

Robotics, AAS

CRN	COURSE NAME	CREDITS
ROB 100	Introduction to Robotics	3
ROB 103	Applied Robotics Lab I	4
ROB 104	Robotics Simulation	2
ROB 106	Robotics Controller Maintenance	1
ROB 115	Introduction to Programming Robots in ROS	4
ROB 118	Basic Circuits	3
ROB 120	IoT Fundamentals: Introduction to the Internet of Things	3
ROB 124	Robotic Navigation	2
ROB 128	Basic PLC	3
ROB 130	IoT Fundamentals: Connected Things	3
ROB 134	Robotic Perception and Manipulation	4
ROB 138	Advanced PLC	3
ROB 140	IoT Fundamentals: Big Data Analytics	3
ROB 145	Applied Robotics Lab II	2
ROB	Robotics Electives - 6 Credits	6
ROB	Experiential Learning Elective - 3 Credits	3
ENG 101	Composition I	3
MTH 112	College Algebra	3
	Communication Elective	3
	Social Science Elective	3
	Humanities Elective	3
Experiential Learning Electives		
ROB 170	Robotics Internship	
ROB 172	Robotics Capstone	
Robotics Electives		
ROB 144	Machine Learning for Robotics	
ROB 148	PLC System Design and Simulation	
ROB 155	Advanced Industrial Workcell Programming	
ROB 150	IoT Security	
Total		64.00

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

LOCATION
National Center for Aviation Training 4004 N. Webb Road Wichita, KS 67226 316.677.9400 Get maps at WSUTECH.edu/Campuses
COSTS*
PROGRAM TOTAL \$16,771.00
*Cost does not include online fees, books or tools. Financial Assistance may be available to those who qualify. Total calculated based on the lowest cost combination of elective credits required.
PLACEMENT & WAGE DATA
WSUTECH.edu/KBORplacement
Get historical data on job placement rates and average wages from WSU Tech graduates.

Robotics, TC

CRN	COURSE NAME	CREDITS
ROB 100	Introduction to Robotics	3
ROB 103	Applied Robotics Lab I	4
ROB 106	Robotics Controller Maintenance	1
ROB 104	Robotics Simulation	2
ROB 115	Introduction to Programming Robots in ROS	4
ROB 118	Basic Circuits	3
ROB 120	IoT Fundamentals: Introduction to the Internet of Things	3
ROB 124	Robotic Navigation	2
ROB 128	Basic PLC	3
ROB 130	IoT Fundamentals: Connected Things	3
ROB 134	Robotic Perception and Manipulation	4
ROB 138	Advanced PLC	3
ROB 140	IoT Fundamentals: Big Data Analytics	3
ROB 145	Applied Robotics Lab II	2
Total		40.00

LOCATION

National Center for Aviation Training
 4004 N. Webb Road | Wichita, KS 67226
 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*

PROGRAM TOTAL **\$12,150.00**

*Cost does not include online fees, books or tools.
 Financial Assistance may be available to those who qualify.
 Total calculated based on the lowest cost combination of elective credits required.

PLACEMENT & WAGE DATA

WSUTECH.edu/KBORplacement

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Surgical Technology, AAS

CRN	COURSE NAME	CREDITS
SGT 101	Introduction to Surgical Technology	4
SGT 107	Pharmacology for Surgical Technology	3
SGT 115	Surgical Procedures I	5
SGT 119	Surgical Technology - Clinical Experience I	6
SGT 120	Principles and Practices in Surgical Technology	5
SGT 125	Surgical Procedures II	5
SGT 129	Surgical Technology - Clinical Experience II	7
SGT 140	Principles and Practices in Surgical Technology Lab	3
SGT 145	ST Certification Review	1
ALH 101	Medical Terminology	3
BIO 150	Human Anatomy & Physiology	5
BIO 160	Microbiology	5
CPR 001	CPR for Healthcare Providers	1
ENG 101	Composition I	3
	Communication Elective	3
	Electives - 3 credits	3
	Math Elective	3
Electives		
PSY 101	General Psychology	
SOC 101	Principles of Sociology	
Total		65.00

LOCATION

WSU South
 3821 E. Harry | Wichita, KS 67218
 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*

PROGRAM TOTAL **\$14,729.00**

*Cost does not include online fees, books or tools. Financial Assistance may be available to those who qualify. Total calculated based on the lowest cost combination of elective credits required.

PLACEMENT & WAGE DATA

WSUTECH.edu/KBORplacement

Get historical data on job placement rates and average wages from WSU Tech graduates.

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

Ultrasonic Technician, COC

CRN	COURSE NAME	CREDITS
NDT 106	Formulations and Calculations	2
NDT 112	Ultrasonic Testing Method Level I	3
NDT 113	Ultrasonic Testing Method Level II	3
NDT 123	Advanced Ultrasonic Testing Methods	5
Total		13.00

LOCATION

National Center for Aviation Training
 4004 N. Webb Road | Wichita, KS 67226
 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*

PROGRAM TOTAL \$3,900.00

*Cost does not include online fees, books or tools.
 Financial Assistance may be available to those who qualify.
 Total calculated based on the lowest cost combination of elective credits required.

PLACEMENT & WAGE DATA

WSUTECH.edu/KBORplacement

Get historical data on job placement rates and average wages from WSU Tech graduates.

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

Unmanned Aircraft Systems, AAS

CRN	COURSE NAME	CREDITS
UAS 185	Multi-Rotor Flight	4
UAS 180	Ground School	4
UAS 190	Videography	4
UAS 220	UAS Multi-Rotor Maintenance	6
UAS 225	Post-Processing	3
UAS 235	UAS Small Business Fundamentals	3
UAS 240	Multi-Rotor Instructor	6
UAS 250	Advanced Post-Processing	6
UAS 255	Advanced Payloads	3
UAS 260	Fixed-Wing Construction	3
UAS 265	Fixed-Wing UAS Flight	3
UAS	Experiential Learning Elective	3
ENG 101	Composition I	3
MTH 112	College Algebra	3
	Communication Elective	3
	Humanities Elective	3
	Social Science Elective	3
Experiential Learning Electives		
UAS 275	UAS Internship	
UAS 273	Capstone	
Total		63.00

LOCATION

National Center for Aviation Training
 4004 N. Webb Road | Wichita, KS 67226
 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*

PROGRAM TOTAL **\$16,561.00**

*Cost does not include online fees, books or tools.
 Financial Assistance may be available to those who qualify.
 Total calculated based on the lowest cost combination of
 elective credits required.

PLACEMENT & WAGE DATA

WSUTECH.edu/KBORplacement

Get historical data on job placement rates and average wages
 from WSU Tech graduates.

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

Unmanned Aircraft Systems, TC

CRN	COURSE NAME	CREDITS
UAS 185	Multi-Rotor Flight	4
UAS 180	Ground School	4
UAS 190	Videography	4
UAS 220	UAS Multi-Rotor Maintenance	6
UAS 225	Post-Processing	3
UAS 235	UAS Small Business Fundamentals	3
UAS 240	Multi-Rotor Instructor	6
UAS 250	Advanced Post-Processing	6
UAS 255	Advanced Payloads	3
UAS 260	Fixed-Wing Construction	3
UAS 265	Fixed-Wing UAS Flight	3
Total		45.00

LOCATION

National Center for Aviation Training
 4004 N. Webb Road | Wichita, KS 67226
 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*

PROGRAM TOTAL **\$13,500.00**

*Cost does not include online fees, books or tools.
 Financial Assistance may be available to those who qualify.
 Total calculated based on the lowest cost combination of elective credits required.

PLACEMENT & WAGE DATA

WSUTECH.edu/KBORplacement

Get historical data on job placement rates and average wages from WSU Tech graduates.

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

Veterinary Nursing (Vet Tech), AAS

CRN	COURSE NAME	CREDITS
VET 101	Introduction to Veterinary Nursing	3
VET 110	Veterinary Anatomy and Physiology	4
VET 105	Veterinary Business Procedures/Office Management	2
VET 115	Veterinary Clinical Pathology I	3
VET 120	Veterinary Nursing Procedures I	3
VET 130	Veterinary Emergency, Critical Medicine and Hospital Procedures	2
VET 140	Veterinary Pharmacology	2
VET 200	Veterinary Professional Wellness	2
VET 215	Veterinary Clinical Pathology II	3
VET 220	Veterinary Nursing Procedures II	2
VET 230	Veterinary Diagnostic Imaging with Lab	3
VET 240	Veterinary Anesthesia and Surgical Assisting	3
VET 250	Veterinary Nursing: Large Animal Disease and Medical Care	2
VET 260	Veterinary Clinical Pathology III	3
VET 265	Veterinary Nursing Procedures: Avian, Exotic and Lab Animals Disease and Medical Care	2
VET 270	Veterinary Nursing Seminar	1
VET 275	Veterinary Clinical Practicum	6
BIO 110	Principles of Biology	5
CHM 110	General Chemistry	5
ENG 101	Composition I	3
	Communication Elective	3
	Humanities Elective	3
	Math Elective	3
Total		68.00

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

LOCATION

WSU South
3821 E. Harry | Wichita, KS 67218
316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*

PROGRAM TOTAL **\$20,087.00**

*Cost does not include online fees, books or tools. Financial Assistance may be available to those who qualify. Total calculated based on the lowest cost combination of elective credits required.

PLACEMENT & WAGE DATA

WSUTECH.edu/KBORplacement

Get historical data on job placement rates and average wages from WSU Tech graduates.

Welding, AAS

CRN	COURSE NAME	CREDITS
CWG 103	Blue Print Reading for Welders	2
CWG 105	Welding Safety & Orientation	1
CWG 115	SMAW	3
CWG 116	SMAW II	4
CWG 120	GMAW	3
CWG 121	GMAW II	4
CWG 125	GTAW	3
CWG 126	GTAW II	4
CWG 141	Oxy Acetylene Welding & Cutting	2
CWG 145	Fabrication & Design	2
CWG 149	Materials & Testing	2
Technical Elective Credits - 12 (4 of the required credits must come from either CWG 242 or CWG 243)		12
AVC 110	Safety/OSHA 10	1
ENG 101	Composition I	3
PDV 115	Work Ethics	2
	Communication Elective	3
	Humanities Elective	3
	Math Elective	3
	Social Science Elective	3
Technical Electives		
CWG 110	Welding Applications	
CWG 130	Robotic Welding	
CWG 155	Flux Cored Arc Welding	
CWG 160	Welding Internship	
CWG 242	SMAW D1.1 Qualification	
CWG 243	GMAW D1.1 Qualification	
MCD 101	Introduction to CAD I	
MCD 102	Introduction to CAD II	
Total		60.00

LOCATION	
National Center for Aviation Training 4004 N. Webb Road Wichita, KS 67226 City Center 301 S. Grove Wichita, KS 67211 316.677.9400 Get maps at WSUTECH.edu/Campuses	
COSTS*	
PROGRAM TOTAL	\$17,162.00
*Cost does not include online fees, books or tools. Financial Assistance may be available to those who qualify. Total calculated based on the lowest cost combination of elective credits required.	
PLACEMENT & WAGE DATA	
WSUTECH.edu/KBORplacement	
Get historical data on job placement rates and average wages from WSU Tech graduates.	

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

Welding Fast Track GMAW, TC

CRN	COURSE NAME	CREDITS
CWG 103	Blue Print Reading for Welders	2
CWG 105	Welding Safety & Orientation	1
CWG 120	GMAW	3
CWG 121	GMAW II	4
CWG 141	Oxy Acetylene Welding & Cutting	2
AVC 110	Safety/OSHA 10	1
MTH 020	Math Fundamentals	3
PDV 115	Work Ethics	2
Total		18.00

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

LOCATION

National Center for Aviation Training
 4004 N. Webb Road | Wichita, KS 67226
 City Center
 301 S. Grove | Wichita, KS 67211
 316.677.9400 Get maps at WSUTECH.edu/Campuses

COSTS*


PROGRAM TOTAL \$5,533.00

*Cost does not include online fees, books or tools. Financial Assistance may be available to those who qualify. Total calculated based on the lowest cost combination of elective credits required.

PLACEMENT & WAGE DATA

WSUTECH.edu/KBORplacement

Get historical data on job placement rates and average wages from WSU Tech graduates.


 KSDegreeStats.org

Welding Fast Track SMAW, TC

CRN	COURSE NAME	CREDITS
CWG 103	Blue Print Reading for Welders	2
CWG 105	Welding Safety & Orientation	1
CWG 115	SMAW	3
CWG 116	SMAW II	4
CWG 141	Oxy Acetylene Welding & Cutting	2
AVC 110	Safety/OSHA 10	1
MTH 020	Math Fundamentals	3
PDV 115	Work Ethics	2
Total		18.00

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

LOCATION	
National Center for Aviation Training 4004 N. Webb Road Wichita, KS 67226 City Center 301 S. Grove Wichita, KS 67211 316.677.9400 Get maps at WSUTECH.edu/Campuses	
COSTS*	
PROGRAM TOTAL	\$5,263.00
*Cost does not include online fees, books or tools. Financial Assistance may be available to those who qualify. Total calculated based on the lowest cost combination of elective credits required.	
PLACEMENT & WAGE DATA	
WSUTECH.edu/KBORplacement	
Get historical data on job placement rates and average wages from WSU Tech graduates.	

 KS DegreeStats.org

Welding Fast Track, TC

CRN	COURSE NAME	CREDITS
CWG 103	Blue Print Reading for Welders	2
CWG 105	Welding Safety & Orientation	1
CWG 141	Oxy Acetylene Welding & Cutting	2
CWG	Technical Electives - 7 Credits	7
AVC 110	Safety/OSHA 10	1
MTH 020	Math Fundamentals	3
PDV 115	Work Ethics	2
Technical Electives		
CWG 115	SMAW	
CWG 116	SMAW II	
CWG 120	GMAW	
CWG 121	GMAW II	
Total		18.00

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

LOCATION
National Center for Aviation Training 4004 N. Webb Road Wichita, KS 67226 City Center 301 S. Grove Wichita, KS 67211 316.677.9400 Get maps at WSUTECH.edu/Campuses
COSTS*
PROGRAM TOTAL \$5,369.00
*Cost does not include online fees, books or tools. Financial Assistance may be available to those who qualify. Total calculated based on the lowest cost combination of elective credits required.
PLACEMENT & WAGE DATA
WSUTECH.edu/KBORplacement
Get historical data on job placement rates and average wages from WSU Tech graduates.

Welding, TC

CRN	COURSE NAME	CREDITS
CWG 103	Blue Print Reading for Welders	2
CWG 105	Welding Safety & Orientation	1
CWG 115	SMAW	3
CWG 116	SMAW II	4
CWG 120	GMAW	3
CWG 121	GMAW II	4
CWG 125	GTAW	3
CWG 126	GTAW II	4
CWG 141	Oxy Acetylene Welding & Cutting	2
CWG 145	Fabrication & Design	2
CWG 149	Materials & Testing	2
	Technical Electives - 4 Credits	4
AVC 110	Safety/OSHA 10	1
MTH 020	Math Fundamentals	3
PDV 115	Work Ethics	2
Technical Electives		
CWG 110	Welding Applications	
CWG 130	Robotic Welding	
CWG 155	Flux Cored Arc Welding	
CWG 160	Welding Internship	
CWG 242	SMAW D1.1 Qualification	
CWG 243	GMAW D1.1 Qualification	
MCD 101	Introduction to CAD I	
MCD 102	Introduction to CAD II	
Total		40.00

*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Advisor for details. Visit WSUTECH.edu/Checklist for program admission requirements.

LOCATION
National Center for Aviation Training 4004 N. Webb Road Wichita, KS 67226 City Center 301 S. Grove Wichita, KS 67211 316.677.9400 Get maps at WSUTECH.edu/Campuses
COSTS*
PROGRAM TOTAL \$12,949.00
*Cost does not include online fees, books or tools. Financial Assistance may be available to those who qualify. Total calculated based on the lowest cost combination of elective credits required.
PLACEMENT & WAGE DATA
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COURSE DESCRIPTIONS

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

ACC 105 Fundamentals of Accounting

Course Standard

Course Information

Description	This is a course designed for students who want a working knowledge of accounting, but not to the extent as a person working primarily in the accounting field. Although the basic accounting principles are learned and applied, the course, in comparison to Principles of Accounting I, covers a smaller amount of material at a somewhat slower pace. It is recommended for students with no previous accounting background.
Instructional Level	Associate of Applied Science
Total Credits	3

ACC 130 Managerial Accounting

Course Standard

Course Information

Description	This course studies management tools for business decision making, including study of the evaluation of financial condition and performance of business. Emphasis is given to the process of formulating and utilizing sound accounting data to evaluate alternatives involved in managerial decision-making necessary for planning, execution, and control of a business enterprise.
Career Cluster	Business Management and Administration

Instructional Level	Associate of Applied Science
Total Credits	3

ACC 152 Payroll Accounting

Course Standard

Course Information

Description	Provides an understanding of the laws that affect a company's payroll structure and practical application skills in maintaining payroll records. Topics include payroll tax laws, payroll tax forms, payroll and personnel records, computing wages and salaries, taxes affecting employees and employers and analyzing and journalizing payroll transactions. Provides first-hand experience in calculating payroll, completing payroll taxes and preparing records and reports. Topics include payroll tax entries, preparing payroll registers and maintaining employees' earnings records using computerized software.
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Career Cluster	Business Management and Administration
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Instructional Level	Associate of Applied Science
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Total Credits	3
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ACC 160 Principles of Accounting I

Course Standard

Course Information

Description	This course is designed to help the students develop a basic understanding of accounting theory, concepts and procedures. It will provide a foundation for further study for the student seeking a career in accounting or business administration or for the student entering into the occupational field.
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Instructional Level	Associate of Applied Science
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Total Credits	3
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ACC 170 Principles of Accounting II

Course Standard

Course Information

Description	This course is a continuation of ACC 160 Principles of Accounting I. It is a study of corporations which includes organization and operations; stockholders' equity,
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earnings and dividends; long term assets and liabilities, investments, income tax and their effort on business decisions; and assessing a company's financial performance.

Instructional Level Associate of Applied Science

Total Credits 3

ACC 230 Tax Accounting

Course Standard

Course Information

Description This course provides students with a comprehensive understanding of tax principles and practices, focusing on individual taxation. It will include an introduction to business taxation. Through a combination of theoretical concepts and practical applications, students will receive an overview knowledge of the complexities of the tax code. The course emphasizes critical thinking, problem-solving, and ethical considerations in the context of taxation.

Career Cluster Business Management and Administration

Instructional Level Associate of Applied Science

Total Credits 3

ACP 100 Introduction to Coatings & Paint Technology

Course Standard

Course Information

Alternate Title Intro to Coatings & Paint Tech

Description The objective of this course is to discuss the fundamentals of paint composition, application, and processing. As such, basic ingredients of paint properties will be discussed. Paint selection, performance criteria, application methods, defects, problem resolution, future paint and raw materials needs will be discussed.

Career Cluster Manufacturing

Instructional Level Associate of Applied Science

Total Credits 3

ACP 101 Surface Preparation & Coatings

Course Standard

Course Information

Description	This course is a study of surface preparation from various coating and painting applications on all interior and exterior aircraft components. The content includes safety procedures including hazardous waste, surface preparations techniques, material application techniques and effectively using industry based technologies.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	4

ACP 102 Performance & Durability of Coatings

Course Standard

Course Information

Alternate Title	Perf & Durability of Coatings
Description	The objective of this course is to discuss facts and findings affecting performance and permanence of coatings. Topics include: methods of enhancing durability and permanence, properties and selection of raw materials processes leading to robust coatings, service – life prediction, and coating evaluation.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

ACP 103 Color Technology

Course Standard

Course Information

Description	This course is a study of the fundamentals of visual color match evaluation and of color measurement for industrial color control. Students utilize industry appropriate technologies on projects that demonstrate proper lighting, observe testing, objective terminology for color difference and determination of tolerances. Students analyze measurement data of the same industrial sample to study the correlation of visual to measured results
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

ACP 104 Specialized Coatings Processes

Course Standard

Course Information

Description	This course is a study in special coatings for aerospace structures. Topics include mixing, application and curing coating materials, environmental effects of coating materials and general and hazardous material handling safety. The course also covers equipment used in these processes.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

ACP 105 Specialized Detailing

Course Standard

Course Information

Description	This course provides instruction in the equipment, material, and techniques used in the application of special paints. Emphasis will be placed on aircraft refinishing procedures. Topics include: safety; paint identification; equipment use and maintenance; color application; original finish sealing; panel-spot repair and blending; thinners, reducers, and additives; and composite materials, plastics, and rubber refinishing.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

ACP 106 Aerospace Coatings & Materials

Course Standard

Course Information

Description	This course covers advanced technologies for coating materials and applications. Topics include: coating technologies that address aesthetics, durability, and environmental issues.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

ACP 110 Integrated Assembly Capstone Project

Course Standard

Course Information

Alternate Title	Integrated Assembly Capstone
Description	This course addresses the full spectrum of the Coating Technicians role within the industry. Problem solving strategies within a team concept will be emphasized. Industry and applied research projects will be assigned.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	4

ACP 111 Technical Co-Operative Project

Course Standard

Course Information

Description	Students will work on a part-time basis in a job directly related to applied technologies. The employer and supervising instructor will evaluate students' progress. Upon course completion, students will be able to apply skills and knowledge in an employment setting.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	4

ACP 115 Introduction to Airbrush

Course Standard

Course Information

Description	This course is designed as an introduction to airbrush paint. The ability to draw is not mandatory, patience is helpful. Topics covered in this class include a brief history and structure of the airbrush, comparing types and uses for different models and proper cleaning and managing of airbrush equipment. Instruction on the proper triggering and holding of the airbrush, control exercises and various techniques will be addressed.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

ACP 120 Intermediate Airbrush I

Course Standard

Course Information

Description	This course deals with promoting advanced technique skills that have been implemented in the introduction airbrush course and begin building a student portfolio. Students will have both required technique projects and student initiated subject matters in this course.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

ACP 121 Surface Preparation & Coatings II

Course Standard

Course Information

Alternate Title	Surface Prep & Coatings II
Description	This course is designed to enhance the students understanding of surface preparation and coatings learned in ACP 101. Students will demonstrate their ability to apply this knowledge to advanced projects.

Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

ACP 124 Specialized Coatings Processes II

Course Standard

Course Information

Alternate Title	Specialized Coatings Proc II
Description	This course is designed to enhance the students understanding of aviation coatings processes learned in ACP 104. Students will demonstrate their ability to apply this knowledge to advanced projects.

Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	4

ACP 145 Environmental Health and Safety

Course Standard

Course Information

Description	Environmental Health and Safety (EHS) is a comprehensive course designed to provide students with a solid foundation in the principles and practices of maintaining a safe and healthy environment in an industrial paint setting. This course covers a wide range of topics crucial for ensuring the well-being of workers, the protection of the environment, and compliance with industry regulations. Throughout this course, students will delve into essential areas of EHS, including industrial paint shop safety, personal protective equipment (PPE), hazardous materials and chemical safety, fire safety, electrical safety, respiratory protection, ventilation systems, emergency preparedness and response, safe operation of equipment, ergonomics, safety audits, and inspections.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	2

ACR 112 HVAC Fundamentals

Course Standard

Course Information

Description	This course is designed to introduce students to the HVAC industry. Topics include: basic HVAC concepts and theories of refrigeration, the laws of thermodynamics, pressure and temperature relationships, heat transfer, refrigerant identification, the refrigeration cycle. Technical skills will be introduced in soldering, brazing and refrigerants. Additionally, students will become familiar with trade related organizations, safety and job requirements.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	4

ACR 113 Electrical Fundamentals

Course Standard

Course Information

Description	Students will be introduced to basic electrical theory for DC and AC systems. The students will become familiar with the production of electricity and how to apply Ohm's Law and Power Formula. Additional topics include electrical safety, reading and interpreting schematic designs.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	4

ACR 116 Workplace Skills

Course Standard

Course Information

Description	Upon successful completion of this course, the student should be able to identify the job skills necessary to have a successful career in the field of their choice. Topics include: listening skills, oral communication, human relations, decision making/problem solving, how to work as a team, time and resource management, work ethics, career planning and resume building.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	1

ACR 117 Intro to Mechanical Refrigeration

Course Standard

Course Information

Alternate Title	Intro Mechanical Refrigeration
Description	The students will learn the basics of the refrigeration system and its components. The students will also learn proper refrigerant handling techniques regarding system evacuation and charging; and the best practices for refrigerant recovery, reclamation, and recycle – all of which form the basis for the EPA 608 exam.

Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	4

ACR 118 Electrical Fundamentals II

Course Standard

Course Information

Description	Students will be introduced to motor theory and explore motor applications. This course builds on previous knowledge gained in Electrical Fundamentals I and requires a firm understanding of magnetism and voltage production. Motor trouble shooting will be introduced. Types of motors covered will be single phase motors, three phase and ECM motors.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

ACR 119 Advanced Electrical Theory for HVAC

Course Standard

Course Information

Alternate Title	Adv Electrical Theory for HVAC
Description	Advanced Electrical Theory for HVAC is a continuation of Electrical Fundamentals I & II, and places an emphasis on developing systematic diagnosis and troubleshooting methods and procedures that will enable the student to become a highly-skilled, professional HVAC-R service technician.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	2

ACR 121 Heating System Fundamentals

Course Standard

Course Information

Description	This course will provide students a firm understanding of combustion and how it is applied in the HVAC industry. Residential gas furnaces will be studied in detail to gain understanding in service and installation, including standard, mid-range, and high efficiency furnaces.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

ACR 122 Heating System Fundamentals II

Course Standard

Course Information

Description	The Heating System Fundamentals II course is designed to walk students through the requirements of the Uniform Mechanical Code in relation to Gas Piping and exhaust ventilation. Students will gain a thorough understanding and be able to apply skills in sizing vents and pipe upon completion of this course.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

ACR 123 Heat Loads and Duct Sizing

Course Standard

Course Information

Description	The course will teach students to analyze heat flow characteristics as they study heat loss and heat gain factors as it pertains to residential HVAC design. Topics will include the effects of selected materials and the layout of the system for the purpose of trouble shooting, load estimation and duct sizing.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	2

ACR 124 Advanced Heating Systems

Course Standard

Course Information

Description	This course will introduce students to electric furnaces and hydronic heating with an emphasis on the electrical systems of those units and code requirements for the safe installation of such equipment. Indoor air quality will be discussed in detail as a major factor in human comfort.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

ACR 126 EPA 608

Course Standard

Course Information

Description	This course prepares students for the certification exam required by federal and state governments and the heating, ventilation, air conditioning and refrigeration (HVAC/R) industry. Students focus on Environmental Protection Agency (EPA) refrigerant handling exams and Industry Competency Exams (ICE).
Career Cluster	Manufacturing

Instructional Level Associate of Applied Science

Total Credits 1

ACR 127 Heat Pumps

Course Standard

Course Information

Description The student will learn basic functions of heat pump designs, charging, and trouble shooting.

Career Cluster Manufacturing

Instructional Level Associate of Applied Science

Total Credits 4

ACR 128 Commercial HVAC

Course Standard

Course Information

Description This course will introduce students to the commercial applications of various HVAC systems. A strong foundation in refrigeration theory is required as well as a comprehensive understanding of system airflow and electrical fundamentals. Students who complete this course will be skilled in reading advanced electrical schematics and be able to describe the function and application of various commercial systems and components including Direct Digital Control systems and frequency drives. This is a capstone course.

Instructional Level Associate of Applied Science

Total Credits 4

ACR 129 Commercial HVAC Lab

Course Standard

Course Information

Description This course continues the introduction to commercial HVAC systems through hands-on training. Students will perform basic maintenance, repairs and troubleshooting on functioning light commercial and commercial equipment.

Instructional Level Associate of Applied Science

Total Credits 4

ACR 140 Sheet Metal Fabrication I

Course Standard

Course Information

Description Upon successful completion of this course, the student will be able to identify the components, equipment, and operations associated with sheet metal layout and fabrication. Duct sizing and code requirements for duct systems are also discussed.

Career Cluster Manufacturing

Instructional Level Associate of Applied Science

Total Credits 3

ADN 110 Concepts of Professional Nursing: Transitioning from LPN to RN

Course Standard

Course Information

Alternate Title Transitioning from LPN to RN

Description This course focuses on the transition from a Licensed Practical Nurse (LPN) into the Associate Degree nursing program and introduces students to concepts under the categories of Client-Centered Care, Professional Nursing and Healthcare System. Students will be able to differentiate the scope of practice of the LPN from the RN. Emphasis is placed on concepts that are commonly used by professional nurses for the care of diverse clients, in a variety of settings, across the life span.

Career Cluster Health Science

Instructional Level Associate of Applied Science

Total Credits 4

ADN 120 Introduction to Nursing Concepts

Course Standard

Course Information

Alternate Title	Intro to Nursing Concepts
Description	This course introduces students to a core set of concepts critical to professional nursing practice. Conceptual learning and its role in promoting deep learning will be examined. Students will complete concept analyses on selected concepts that will be used throughout the curriculum. Evidence-based exemplars will also be briefly reviewed in relation to selected concept.
Career Cluster	Health Science
Instructional Level	Associate of Applied Science
Total Credits	1

ADN 130 Foundational Concepts in Nursing

Course Standard

Course Information

Alternate Title	Foundational Concepts Nursing
Description	This course introduces students to concepts under the category of Client Centered Care. Instruction will emphasize the knowledge and skills needed by professional nurses to provide safe, quality care. The faculty will present the theoretical foundation for nursing skills and the nursing process, and students will demonstrate these skills in a laboratory setting.
Career Cluster	Health Science
Instructional Level	Associate of Applied Science
Total Credits	6

ADN 140 Pharmacological Concepts in Nursing I

Course Standard

Course Information

Alternate Title	Pharmacological Concepts I
Description	The purpose of this course is to examine pharmacotherapeutic agents used in the treatment of illness and the promotion, maintenance, and restoration of wellness in diverse individuals. It focuses on drug classification, concepts, and principles of pharmacology with special consideration for the nursing role in developing a comprehensive approach to the clinical application of drug therapy through the use of the nursing process. In addition, students examine the Nursing implications

relative to the utilization of drug therapy and engage in discussion around the safety and legal implications of drug administration.

Career Cluster	Health Science
Instructional Level	Associate of Applied Science
Total Credits	2

ADN 150 Professional Nursing Concepts I

Course Standard

Course Information

Alternate Title	Prof Nursing Concepts I
Description	This course introduces students to concepts under the categories of Professional Nursing and Healthcare System. Emphasis is placed on concepts that professional nurses commonly use in a variety of settings with diverse clients.
Career Cluster	Health Science
Instructional Level	Associate of Applied Science
Total Credits	4

ADN 160 Client Care Concepts I

Course Standard

Course Information

Description	This course focuses on the care of clients across the lifespan with concept-related health alterations that require intervention. Clinical experiences allow the student to apply theoretical concepts and implement safe client care to clients in various settings.
Career Cluster	Health Science
Instructional Level	Associate of Applied Science
Total Credits	6

ADN 170 Pharmacological Concepts in Nursing II

Course Standard

Course Information

Alternate Title	Pharmacological Concepts II
Description	This course is a continuation of Pharmacological Concepts in Nursing I. The purpose of this course is to examine pharmacotherapeutic agents used in treating illness and promoting, maintaining, and restoring wellness in diverse individuals. It focuses on drug classification, concepts, and principles of pharmacology with special consideration for the nursing role in developing a comprehensive approach to the clinical application of drug therapy through the use of the nursing process. In addition, students will have the opportunity to examine the nursing implications relative to the utilization of drug therapy. Finally, students will study the safety and legal implications of drug administration.
Career Cluster	Health Science
Instructional Level	Associate of Applied Science
Total Credits	2

ADN 180 Client Care Concepts II

Course Standard

Course Information

Description	This course builds on Client Care Concepts I, focusing on the care of clients across the lifespan with concept-related health alterations that require intervention. Clinical experiences allow the student to apply theoretical concepts and implement safe client care to clients in a variety of settings.
Career Cluster	Health Science
Instructional Level	Associate of Applied Science
Total Credits	6

ADN 190 Professional Nursing Concepts II

Course Standard

Course Information

Alternate Title	Prof Nursing Concepts II
Description	This course requires students to continue appraising concepts under the categories of Professional Nursing and Healthcare System. Instruction in this course emphasizes contemporary issues and the concepts of Health Care Law and Ethics, Healthcare Delivery Systems and Organizations, Healthcare Quality,

Health Policy, Leadership and Management, and Professionalism and Professional Identity.

Career Cluster	Health Science
Instructional Level	Associate of Applied Science
Total Credits	4

ADN 200 Client Care Concepts III

Course Standard

Course Information

Description	This course builds on Client Care Concepts I and II, focusing on the care of clients across the lifespan with concept-related exemplary multisystem health alterations that require intervention. Clinical experiences allow the student to apply theoretical concepts and implement safe client care to clients in a variety of settings.
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Career Cluster	Health Science
Instructional Level	Associate of Applied Science
Total Credits	6

ADN 210 Transition to Practice

Course Standard

Course Information

Description	This course facilitates the transition of the student to the role of a professional nurse. Emphasis is placed on contemporary issues and management concepts and developing the skills of delegation, conflict management, and leadership. Students will review the legal and ethical issues with a focus on personal accountability and responsibility. Standards of practice and the significance of functioning according to state regulations and statutes are analyzed. Clinical experiences provide the student the opportunity to apply theoretical concepts.
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Career Cluster	Health Science
Instructional Level	Associate of Applied Science
Total Credits	4

AER 106 Aerospace Manufacturing Tooling Orientation

Course Standard

Course Information

Alternate Title	Aerospace Mfg Tooling Orientat
Description	This course provides an overview of the Tooling safety hazards, traits employers value, various roles and responsibilities within advanced manufacturing teams and what elements are necessary to make a manufacturing company successful.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	1

AER 111 Tap and Die

Course Standard

Course Information

Description	This course provides knowledge and technical skills on taps and dies. Topics include 60 degree thread form, common fastener thread series and markings on taps. The student will learn the process of hand tapping, the process of repairing a thread with a threading die and the process of installing a threaded insert.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	1

AER 115 Aerostructures Assembly

Course Standard

Course Information

Description	Students will master the techniques associated with aerospace mechanical assembly. Topics include the identification, installation and removal of fasteners, sealant applications, component assembly, wing structures, fuselage structures, curved surfaces, and repair techniques. Students learn in an environment which combines interactive online delivery of theoretical content with hands on application in a state of the art assembly laboratory.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	6

AER 116 Hand and Power Tools for Aerospace Tooling

Course Standard

Course Information

Alternate Title	Hand and Power Tools
Description	This course provides technical knowledge on hand power tools used by a toolmaker in the aerospace industry. The student will learn about die grinders, disco grinders and magnetic drills.

Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	1

AER 122 Introduction to Light Sport Aircraft, Structural Assembly I, Flight Surfaces

Course Standard

Course Information

Description	Students will be proficient in the techniques associated with aircraft assembly procedures. Subjects include the ability to identify proper PPE and usage, understand and practice hand and power tool shop safety practices, read, and understand parts lists and assembly drawings, perform inventory, identification, installation and removal of fasteners, component assembly, wing structures and flight control structures. Students learn in an environment which combines interactive online delivery of content of theory with hands on application in an assembly laboratory scenario.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

AER 126 Tooling Capstone

Course Standard

Course Information

Description	This course provides the specific technical knowledge and skills necessary to utilize hand and power tools to create a drill jig. This course emphasizes the importance of critical features, the process of permanent assembly and the role of toolmakers in the manufacturing environment.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	4

AER 135 Quality Assurance Orientation

Course Standard

Course Information

Description	This course provides an overview of the Quality Assurance Program. The course includes an overview of the expectations of the program, potential safety hazards, traits employers value, various role and responsibilities within advanced manufacturing teams and what elements are necessary to make a manufacturing company successful.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	1

AER 140 Assembly Mechanic Orientation

Course Standard

Course Information

Description	This course provides an overview of the technical and mechanical knowledge and skills necessary to qualify for employment in the aerospace industry as an assembly mechanic. The course presented using interactive online content.
Career Cluster	Manufacturing

Instructional Level	Associate of Applied Science
Total Credits	1

AER 150 Assembly Overview I

Course Standard

Course Information

Description	This course is designed to provide the student with a general overview of assembly techniques used in aviation. Working in a hands-on setting, students will learn the basics of aircraft assembly while focusing on inspection techniques. Students learn in an environment which combines interactive online delivery of theoretical content with hands on application in a state of the art assembly laboratory.
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Career Cluster	Manufacturing
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Instructional Level	Technical Certificate
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Total Credits	3
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AER 155 Aerospace Plumbing

Course Standard

Course Information

Description	This course is designed to develop basic theory and knowledge of aircraft fluid lines and fittings. Students will participate in hands on projects with an emphasis on inspection techniques used in the aviation industry.
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Career Cluster	Manufacturing
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Instructional Level	Associate of Applied Science
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Total Credits	2
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AER 157 Advanced Assembly

Course Standard

Course Information

Description	This course is the second of two courses designed to provide students with real world experiences as aviation sheetmetal assemblers. In a state of the art assembly laboratory students will learn and apply drilling, countersinking skills as
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well as fastener installation and removal techniques. Students will learn to complete the work to the required standards within specified timeframes.

Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

AER 162 Structural Assembly II, Tailcone & Empennage

Course Standard

Course Information

Alternate Title	Assembly II, Tailcone & Empenn
Description	Students will continue to develop proficiencies in techniques associated with aircraft assembly procedures as they build the Tailcone and Empennage components. Students will continue to demonstrate and identify PPE and proper usage, and practice hand and power tool shop safety practices, utilize parts lists and assembly drawings to assemble and install aircraft structural components.

Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

AER 165 Electrical Assembly Mechanic Orientation

Course Standard

Course Information

Alternate Title	Electrical Assembly Mech Orien
Description	The electrical certificate educational program is a tremendous opportunity for you to learn technical skills that are needed for employment in the aerospace manufacturing industry. Your participation in this program is a unique opportunity for you to set a course for success on your career journey. This course exposes students to the potential to a good career in the electrical wiring installation portion of aircraft manufacturing.

Career Cluster	Manufacturing
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Instructional Level	Technical Certificate
Total Credits	1

AER 166 Electrical Hand Tools

Course Standard

Course Information

Description	This course familiarizes the student with various hand tools and connectors used in the installation of electrical wiring in aerospace manufacturing.
Career Cluster	Manufacturing
Instructional Level	Technical Certificate
Total Credits	1

AER 167 Basic Drilling & Riveting/Ground Stud Installation

Course Standard

Course Information

Alternate Title	Basic Drilling & Riveting
Description	This course familiarizes the student with power tools and acquired skills used in drilling a quality hole and installing driven fasteners. In conjunction with this procedure, Ground Studs will be installed and electrical resistance verified.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	2

AER 168 Wire Installation Drawings

Course Standard

Course Information

Description	This course familiarizes with the various drawings utilized in aerospace wire bundle installation, includes engineering drawing review, wire bundle installation paperwork and electrical production illustrations.
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Career Cluster	Manufacturing
Instructional Level	Technical Certificate
Total Credits	1

AER 169 Crimping & Cables

Course Standard

Course Information

Description	This course familiarizes the student with specifications and skills required to strip insulation from wires, crimp connectors on wires, install connectors on coaxial cables, install connectors in plugs and manufacture a wire bundle according to a blueprint.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	2

AER 170 Fiber Optics for Aerospace

Course Standard

Course Information

Description	This course familiarizes the student with the advantages and disadvantages of the use of Fiber Optics in aircraft. Included are overviews how Fiber Optics works, manufacturing processes, handling of Fiber Optics and particulars of quality and safety.
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Career Cluster	Manufacturing
Instructional Level	Technical Certificate
Total Credits	1

AER 172 Structural Assembly III, Fuselage Center Section

Course Standard

Course Information

Alternate Title	Assembly III, Fuselage Center
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Description Students will continue to develop proficiency in the techniques associated with aircraft assembly procedures as they build the Fuselage Center Section and Bulkhead. Students will review proper PPE and usage, hand and power tool shop safety practices, parts lists, and assembly drawings. In this section students will review and perform inventory procedures to document and pull parts from inventory and stage and prepare them for assembly. Students learn in an environment which combines interactive online delivery of content theory with hands on application in an assembly laboratory scenario.

Career Cluster Manufacturing

Instructional Level Associate of Applied Science

Total Credits 3

AER 175 Wire Bundle Basics

Course Standard

Course Information

Description This course familiarizes the student with wiring in airplanes, wire and cable basics, wire markings, documents used in wire bundle installation, circular connectors and contacts, connector installation, MTC connectors and tying wire bundles.

Career Cluster Manufacturing

Instructional Level Technical Certificate

Total Credits 1

AER 177 Structural Assembly IV, Bulkheads & Support Structures

Course Standard

Course Information

Description Students will continue to develop proficiency in the techniques associated with aircraft assembly procedures as they build the Fuselage Center Section and Bulkhead. Students will review proper PPE and usage, shop safety practices related to hand and power tools, parts lists, and assembly drawings. In this section, students will review and perform inventory procedures to document and pull parts from inventory and stage and prepare them for assembly.

Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

AER 180 Soldering

Course Standard

Course Information

Description	The soldering course acquaints the student with the proper way to safely perform soldering procedures in aviation applications. The importance of correct procedures is emphasized as the student performs wire stripping along with various soldering and de-soldering operations.
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Career Cluster	Manufacturing
Instructional Level	Technical Certificate
Total Credits	1

AER 182 System Assembly V, Fuel System & Flight Controls

Course Standard

Course Information

Description	Students will continue to develop proficiency in the techniques associated with aircraft assembly procedures as they fabricate, assemble, and install the different Flight, Fuel, and Engine Control Systems located in the Fuselage Center Section and other sections of the aircraft. Students will review the proper PPE, hand/power tools, shop safety practices, parts lists, and assembly drawing usage. Students will study and perform inventory procedures to document, retrieve parts from inventory to stage, and prepare them for assembly. Students learn in an environment that combines interactive online delivery of content theory with hands-on application in an assembly laboratory scenario.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

AER 185 Wire Bundle Installation

Course Standard

Course Information

Description	This course familiarizes with the requirements for wire bundle installation culminating in the installation of several wire bundles on a project board.
Career Cluster	Manufacturing
Instructional Level	Technical Certificate
Total Credits	2

AER 187 System Assembly VI, Landing Gear & Power Plant

Course Standard

Course Information

Alternate Title	Assembly VI, Land Gear & Power
Description	In this course, students will advance their skills in aircraft assembly techniques by focusing on the fabrication, assembly, and installation of critical components such as Landing Gear, Engine Mount, Cowling, Engine, Spinner & Propeller, Exhaust System, and Cooling & Heating Control Systems. Emphasis will be placed on components located forward and below the Fuselage Center Section and other sections of the aircraft. Additionally, students will revisit essential practices, including proper PPE usage, hand/power tool safety, and shop safety protocols. They will also learn to navigate parts lists, inventory sheets, and assembly drawings. Through hands-on training in an assembly laboratory setting, students will engage in interactive online theory sessions complemented by practical application, honing their abilities to perform inventory procedures, document parts, retrieve inventory items, stage components, and prepare them for assembly.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

AER 192 System Assembly VII, Avionics, Canopy, & Windows

Course Standard

Course Information

Alternate Title Assembly VII, Avionics, Canopy

Description This comprehensive learning experience combines interactive online content delivery for theoretical knowledge with practical application in an assembly laboratory setting, providing students with a well-rounded understanding of aircraft assembly processes. Students will enhance their skills in aircraft assembly techniques by fabricating, assembling, and installing Avionics and Electrical Systems in the Fuselage Center Section and other aircraft segments, including the Tailcone Assembly. During the course, students will review and execute inventory procedures to effectively document and retrieve parts from inventory for staging and assembly preparation. Students will review concepts, including usage of assembly drawings and safety protocols.

Career Cluster Manufacturing

Instructional Level Associate of Applied Science

Total Credits 3

AER 197 System Assembly VIII, Final Assembly & Systems Test

Course Standard

Course Information

Alternate Title Assembly VIII, Final Test

Description

Career Cluster Manufacturing

Instructional Level Associate of Applied Science

Total Credits 3

AFV 110 Electrical I

Course Standard

Course Information

Description In this course students will: Complete service work orders; describe the relationship between voltage, ohms and amperage; perform basic electrical circuit repairs; identify electrical system faults; identify basic wiring diagram symbols, components, and legend information; perform basic electrical circuit

measurements using a DVOM; describe basic circuit characteristics of series, parallel and series parallel circuits through a variety of classroom and shop learning and assessment activities.

Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

AFV 120 Electrical II

Course Standard

Course Information

Description	In this course students will: Perform battery diagnosis; perform battery service; perform starting system diagnosis; perform starting system repair; perform charging system diagnosis; perform charging system repair; identify current flow on starting and charging system diagrams through a variety of learning and assessment activities.
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Instructional Level	Associate of Applied Science
Total Credits	3

AFV 125 Manual Transmission/Transaxle & Drive Train

Course Standard

Course Information

Alternate Title	Manual Trans/Transaxle Drive
Description	This course contains competencies that can be used in their entirety within a single course or as needed for courses designed by a Kansas institution as Institutional Flexible Credit. Through a variety of learning and assessment activities students can: determine the general drive train diagnosis procedures; explore the fundamentals of clutch operation; explore the fundamentals of clutch removal, inspection and repair; determine the powerflow of the manual transmission and transaxle; perform fundamental manual transmission and transaxle inspection and repair according to service specifications; perform fundamental differential inspection and repair according to service specifications; perform fundamental diagnosis, inspection and replacement of drive axle shafts and supporting components; perform fundamental diagnosis, inspection, adjustment and repair of four- and all-wheel drive components; diagnose drive train issues; diagnose clutch concerns; perform the removal, inspection and/or repair of the clutch and its components; conduct a transmission and transaxle inspection and repair according

to service specifications; conduct a differential inspection and repair according to service specifications; conduct the diagnosis, inspection and replacement of drive axle shafts and supporting components; conduct the diagnosis, inspection, adjustment and repair of four- and all-wheel drive components.

Career Cluster	Transportation, Distribution and Logistics
Instructional Level	Associate of Applied Science
Total Credits	4

AFV 130 Suspension and Steering I

Course Standard

Course Information

Description	In this course students will: document fundamental suspension system concerns; perform fundamental diagnostics of steering systems; perform fundamental repairs of steering systems; perform fundamental diagnostics of suspension systems; perform fundamental repairs of suspension systems; determine the need for wheel alignment and adjustment; perform fundamental diagnostics of wheel and tire systems; perform fundamental repairs of wheel and tire systems through a variety of learning and assessment activities.
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Instructional Level	Associate of Applied Science
Total Credits	3

AFV 135 Introduction to Alternative Fuels

Course Standard

Course Information

Alternate Title	Intro to Alternative Fuels
Description	Students will use various sources in the alternative fueled vehicle industry to learn what alternative fuels are available. Students will examine the need for alternative fuels including: Propane, Natural Gas, Ethanol and Biodiesel. Students will also learn about new technologies such as Electric Drive and Hydrogen fueled vehicles as well as Fuel Economy and Idle Reduction considerations.

Career Cluster	Transportation, Distribution and Logistics
Instructional Level	Associate of Applied Science

AFV 140 Engine Repair

Course Standard

Course Information

Description	Through a variety of learning and assessment activities students can: explore the theory and operation of internal combustion engine; demonstrate the ability to remove an automotive engine; demonstrate the ability to install an automotive engine; demonstrate the basic ability to inspect and repair cylinder head, valve trains and timing defects; demonstrate the ability to disassemble short block; demonstrate the ability to inspect short block; demonstrate the ability to repair short block; demonstrate the ability to reassemble short block; demonstrate the basic ability to inspect and repair engine lubrication; demonstrate the basic ability to inspect and repair engine cooling systems; inspect a cylinder head and valve train; repair a cylinder head and valve train; perform advanced level engine diagnosis.
Career Cluster	Transportation, Distribution and Logistics
Instructional Level	Associate of Applied Science
Total Credits	4

AFV 145 Hybrid Systems & Maintenance

Course Standard

Course Information

Description	This course introduces the student to the features of the Internal Combustion Engine (ICE) as they apply to the hybrid vehicle, hybrid drive systems (transaxles and gears), brake systems, HVAC systems, and cooling systems service. First responder, predictive maintenance procedures, hybrid trucks, and Belted Alternator System (BAS) are also examined.
Career Cluster	Transportation, Distribution and Logistics
Instructional Level	Associate of Applied Science
Total Credits	3

AFV 150 Electric/Fuel Cell Technology

Course Standard

Course Information

Description	This course is designed to help prepare the student to enter the automotive repair and service industry in the area of alternative fuels and advanced technology vehicles. It is an intensive study of vehicle electric and fuel cell theory, application, installation, diagnosis, service and safety regulations.
Career Cluster	Transportation, Distribution and Logistics
Instructional Level	Associate of Applied Science
Total Credits	1

AFV 155 High Voltage Battery Technology & Management

Course Standard

Course Information

Alternate Title	High Volt Battery Tech & Mgmt
Description	This course introduces the student to high voltage battery technology: electrical service safety precautions and personal protection, high voltage tools and equipment usage, battery energy management hardware systems, battery removal and installation, and battery rebuilding. The student will also be introduced to AC induction electric machines, permanent magnet electric machines, power inverter systems, electric propulsion sensing systems, communication networks, and predictive maintenance.
Career Cluster	Transportation, Distribution and Logistics
Instructional Level	Associate of Applied Science
Total Credits	3

AFV 160 Brakes I

Course Standard

Course Information

Description	In this course students will Perform system pressure and travel calculations utilizing Pascal's Law; Complete service work orders; Determine appropriate system pressure tests utilizing service specifications; Determine brake system concerns and necessary actions; Diagnose poor stopping, pulling or dragging concerns caused by malfunctions in the hydraulic system; Determine how to inspect, fabricate and/or replace brake lines and hoses; Determine the service specifications pertaining to the removal, cleaning and refinishing procedures on brake drums; Apply drum brake repair and replacement procedures; Diagnose poor stopping noise vibration, pulling, grabbing, dragging or pedal pulsation
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concerns on disc-brake vehicles; Determine disc brake repair and replacement procedures; Determine how to caliper piston retractions; Diagnose wheel bearing noise, wheel shimmy and vibration concerns; Determine how to remove, inspect and replace bearing and hub assemblies through a variety of classroom and lab/shop learning and assessment activities.

Total Credits 3

AFV 165 Introduction to CNG and LPG Conversion, Installation & Maintenance

Course Standard

Course Information

Alternate Title Introduction to CNG and LPG

Description This course introduces students to CNG and LNG as forms of alternative fuels. It will teach them safety when fueling and servicing vehicles that use CNG or LNG. Students will be introduced to CNG conversions and factory installed use of CNG for dual fueled vehicles. Students will be introduced to fleet operations using LNG and how to service and maintain those vehicles.

Career Cluster Transportation, Distribution and Logistics

Instructional Level Associate of Applied Science

Total Credits 1

AFV 170 Automotive Computer Systems

Course Standard

Course Information

Description In this course students will: Perform automotive computer system diagnosis; perform vehicle communication diagnosis; perform engine computer system diagnosis; transmission computer diagnosis; perform air bag system diagnosis; perform heating and air conditioning electronic diagnosing; perform electronic anti-lock brake/traction/stability diagnosis; perform driver assistance system diagnosis; identify computer systems through a variety of learning and assessment activities.

Career Cluster Transportation, Distribution and Logistics

Instructional Level Associate of Applied Science

Total Credits 3

AFV 175 Automatic Transmission Repair

Course Standard

Course Information

Description	This course contains competencies that can be used in their entirety within a single course or as needed for courses designed by a Kansas institution as Institutional Flexible Credit. Through a variety of learning and assessment activities students can: explore the concept of theory and operation of automatic transmissions/transaxles; perform maintenance on an automatic transmission/transaxle; perform service on an automatic transmission/transaxle; diagnose automatic transmission/transaxles; inspect automatic transmission/transaxles; remove and reinstall automatic transmission; remove and reinstall automatic transaxles; disassemble automatic transmission and components; disassemble automatic transaxles and components; inspect automatic transmission components; inspect automatic transaxles and components; repair automatic transmission and components; repair automatic transaxles and components; reassemble automatic transmission and components; reassemble automatic transaxles and components.
Career Cluster	Transportation, Distribution and Logistics
Instructional Level	Associate of Applied Science
Total Credits	4

AFV 180 Heating & Air Conditioning

Course Standard

Course Information

Description	This course contains competencies that can be used in their entirety within a single course or as needed for courses designed by a Kansas institution as Institutional Flexible Credit. Through a variety of learning and assessment activities students can: explore the fundamentals of automotive HVAC operations and environmental concerns, identify the appropriate refrigerant recovery and recycling guidelines; service refrigerant, recycling and handling systems; document fundamental heating and air conditioning system concerns; perform fundamental diagnostics of A/C systems; perform fundamental diagnostics of refrigeration systems components; perform fundamental repairs of refrigeration systems components; perform fundamental diagnostics of heating, ventilation, and engine cooling systems; perform fundamental repairs of heating, ventilation, and engine cooling systems; perform fundamental diagnostics of operating systems and related controls; perform fundamental repairs of operating systems and related controls; perform complex diagnostics of A/C Systems; document complex heating and air conditioning system concerns; perform complex diagnostics of refrigeration system components; perform complex repairs of
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refrigeration system components; perform complex diagnostics of heating, ventilation, and engine cooling systems.

Career Cluster	Transportation, Distribution and Logistics
Instructional Level	Associate of Applied Science
Total Credits	4

AFV 206 PowerTrain Systems

Course Standard

Course Information

Description	This course contains competencies that can be used in their entirety within a single course or as needed for courses designed by a Kansas institution as Institutional Flexible Credit. Through a variety of learning and assessment activities students can: determine the general drive train diagnosis procedures; explore the fundamentals of clutch operation; explore the fundamentals of clutch removal, inspection and repair; determine the powerflow of the manual transmission and transaxle; perform fundamental manual transmission and transaxle inspection and repair according to service specifications; perform fundamental differential inspection and repair according to service specifications; perform fundamental diagnosis, inspection and replacement of drive axle shafts and supporting components; perform fundamental diagnosis, inspection, adjustment and repair of four- and all-wheel drive components; diagnose drive train issues; diagnose clutch concerns; perform the removal, inspection and/or repair of the clutch and its components; conduct a transmission and transaxle inspection and repair according to service specifications; conduct a differential inspection and repair according to service specifications; conduct the diagnosis, inspection and replacement of drive axle shafts and supporting components; conduct the diagnosis, inspection, adjustment and repair of four- and all-wheel drive components.
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Career Cluster	Transportation, Distribution and Logistics
Instructional Level	Associate of Applied Science
Total Credits	4

AFV 225 Electrical III

Course Standard

Course Information

Description	In this course students will: perform charging system diagnosis; perform charging system repair; identify current flow on starting and charging system diagrams through a variety of learning and assessment activities.
Career Cluster	Transportation, Distribution and Logistics
Instructional Level	Associate of Applied Science
Total Credits	2

ALH 101 Medical Terminology

Course Standard

Course Information

Description	Presents basic principles of medical word-building. The study develops competencies in the basic elements forming medical words, categorizing major suffixes and group prefixes. Anatomical, physiological and pathological terms are reviewed so students better understand special medical procedures. This is the introductory course in medical terminology and is intended for all who desire knowledge in this subject.
Instructional Level	Associate of Applied Science
Total Credits	3

ALH 105 First Aid & CPR

Course Standard

Course Information

Description	This course is designed to show the student how to deal with respiratory emergencies that could lead to cardiac arrest, how to give first aid for cardiac emergencies, also to obtain knowledge for prevention and first aid treatment of common emergencies as outlined by The American Red Cross.
Instructional Level	Associate of Applied Science
Total Credits	3

ALH 110 Principles of Nutrition

Course Standard

Course Information

Description	Designed to help students increase their knowledge concerning their personal state of nutrition using self-studies and computer analysis. Upon completion of this course the student will be able to evaluate a person's state of nutrition considering the impact of social, scientific, psychological, political, and environmental influences upon eating patterns and habits.
Instructional Level	Associate of Applied Science
Total Credits	3

ALH 115 Pharmacology

Course Standard

Course Information

Description	This course will provide the basic pharmacology principles with an emphasis on a broad discussion of the primary medications in each of the pharmaceutical classification categories. This course is designed to meet the pharmacology needs of students enrolled in pre-allied health majors and would be beneficial for others in the allied health field who desire a greater understanding or pharmacological principles related to diseases, effects of drugs on different systems of the body, interaction of drugs, side effects, contraindications and effectiveness in relation to dosages.
Instructional Level	Associate of Applied Science
Total Credits	3

ALH 121 Legal and Ethical Issues in Healthcare

Course Standard

Course Information

Alternate Title	Legal & Ethical Issues Health
Description	This course introduces various ethical and moral issues in the context of healthcare and medical professions. This course will examine ethical issues related to healthcare such as: beginning of life issues, healthcare policy/distribution, healthcare law, at risk populations, doctor-patient relationships, healthcare research/technology, and end of life decision making in consideration of various sociocultural, socioeconomic, and lifestyle factors. This course will also overview moral theories such as: utilitarianism, deontology, and virtue ethics and relate these theories to decision making processes at global and local levels.
Career Cluster	Health Science

Instructional Level Associate of Applied Science

Total Credits 3

ALH 130 Emergency Preparedness for Health Professionals

Course Standard

Course Information

Alternate Title Emergency Prep Health Prof

Description This course is designed to provide health care professionals with an orientation for their possible future roles in disaster response and the importance of staying within the scope of practice of the profession. Students will be prepared to meet the expectations of their employers, to volunteer effectively, and to be confident and safe responders.

Instructional Level Associate of Applied Science

Total Credits 1

ALH 131 Diseases, Disorders & Diagnostic Procedures

Course Standard

Course Information

Alternate Title Disease, Disorders & Diag Proc

Description Course focuses on diseases and disorders by body systems that are frequently diagnosed and treated in the medical setting as well as the common diagnostic procedures used in the diagnostic process.

Instructional Level Associate of Applied Science

Total Credits 2

ALH 135 Spanish for Health Care Providers

Course Standard

Course Information

Alternate Title Spanish Lang for Health Care

Description This workshop is designed to provide health care providers with basic and practical knowledge of the Spanish language as applied in the medical field. Students will be prepared to facilitate medical care delivery to their Spanish speaking clients.

Emphasis will be placed on ability to communicate and develop a vocabulary according to the needs of each participant.

Career Cluster	Health Science
Instructional Level	Associate of Applied Science
Total Credits	1

ALH 155 Pharmacology for Allied Health

Course Standard

Course Information

Description	Focuses on knowledge and skills necessary for safe and therapeutic drug therapy. Emphasis is placed on drug identification and classification, pharmacological actions, side effects, as well as the legal and ethical considerations of pharmacology.
Instructional Level	Associate of Applied Science
Total Credits	3

ALH 175 Pathophysiology

Course Standard

Course Information

Description	This course focuses on the essential mechanisms of disordered function which produces common diseases. Common diseases are discussed, implementing examples of the basic processes covered. This is an introductory course that prepares students entering the medical field with accessible, useable and practical information.
Total Credits	4

AMT 187 General I

Course Standard

Course Information

Description	This course develops correct safety practices, comprehensive knowledge, and technical skills required to perform aviation maintenance procedures that align with the current Airmen Certification Standards. This course includes human factors, regulations, maintenance forms & records. Students will learn to properly:
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document a major repair or alteration (FAA form 337), complete airworthiness directive(AD) searches and determine applicability to aircraft, determine aircraft inspection status by reviewing maintenance records, file a malfunction defect report (MDR), interpret aircraft drawings, create a drawing of repair of alteration, interpret graphs and charts used in aviation.

Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	4

AMT 188 General II

Course Standard

Course Information

Description	This course develops correct safety practices, comprehensive knowledge, and technical skills required to perform aviation maintenance procedures that align with the current Airmen Certification Standards. Students will learn to properly: determine cubic inch displacement of aircraft engines, calculate and prove a mechanical advantage in relation to aircraft systems, weigh aircraft, determine aircraft center of gravity, determine useful fuel load, aircraft required equipment, adverse loading center of gravity, and ballast placement.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	4

AMT 189 General III

Course Standard

Course Information

Description	This course develops correct safety practices, comprehensive knowledge, and technical skills required to perform aviation maintenance procedures that align with the current Airmen Certification Standards. Students will learn to utilize hand tools, hardware & measuring devices used in the aviation industry. Students will learn the proper techniques employed in inspecting aircraft corrosion and the proper ways to prevent corrosion. In addition, students will learn how to measure, bend, and terminate fluid lines utilizing aviation fitting.
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Career Cluster	Manufacturing
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Instructional Level Associate of Applied Science

Total Credits 5

AMT 190 General IV

Course Standard

Course Information

Description This course develops correct safety practices, comprehensive knowledge, and technical skills required to perform aviation maintenance procedures that align with the current Airmen Certification Standards. Students will learn to properly: tow aircraft, tie-down aircraft, store aircraft, fuel aircraft, identify fire hazards, fire prevention, FOD Prevention, perform circuit continuity testing, measure voltage, current, and resistance, troubleshoot circuits, and inspect and service aircraft batteries.

Career Cluster Manufacturing

Instructional Level Associate of Applied Science

Total Credits 5

AMT 233 Airframe I

Course Standard

Course Information

Description This course develops correct safety practices, comprehensive knowledge, and technical skills required to perform aviation maintenance procedures that align with the current Airmen Certification Standards. Students will learn to properly: Tension flight control cables, identify hardware used in rigging, weigh and balance surfaces, adjust various flight control systems, document component removal, identify airframe styles and components.

Career Cluster Manufacturing

Instructional Level Associate of Applied Science

Total Credits 4

AMT 234 Airframe II

Course Standard

Course Information

Description	This course develops correct safety practices, comprehensive knowledge, and technical skills required to perform aviation maintenance procedures that align with the current Airmen Certification Standards. Students will learn to properly: inspect aviation welds, identify defects in welds, determine the airworthiness of welds, install and remove aviation fasteners, and design, prepare, and install a repair patch on an aircraft or component.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	5

AMT 235 Airframe III

Course Standard

Course Information

Description	This course develops correct safety practices, comprehensive knowledge, and technical skills required to perform aviation maintenance procedures that align with the current Airmen Certification Standards. Students will learn to correctly: identify woods used in aviation, inspect fabric coverings, clean and inspect acrylics, inspect composite materials, perform a tap test, and complete a layup for a composite repair.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	5

AMT 236 Airframe IV

Course Standard

Course Information

Description	This course develops correct safety practices, comprehensive knowledge, and technical skills required to perform aviation maintenance procedures that align with the current Airmen Certification Standards. Students will learn to properly: remove and install a selector valve; inspect, remove, and clean a hydraulic system filter; remove, install, and operationally check a hydraulic pump and inspect and troubleshoot pneumatic systems. In addition, students will inspect, repair, and troubleshoot fuel systems; service a fuel system strainer; and inspect fuel tanks.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	5

AMT 237 Airframe V

Course Standard

Course Information

Description	This course is designed to develop correct safety practices, comprehensive Knowledge, and technical skills required to perform aviation maintenance procedures that align with the current Airmen Certification Standards. Students will learn to properly: Inspect land gear, service land gear, Inspect wheels, Inspect brakes, Inspect bearing, inspect tires, remove and replace brake linings, service landing gear air/oil shocks struts, bleed hydraulic brake systems, trouble shoot a hydraulic brake system, service a nose wheel shimmy damper, troubleshoot oxygen systems, operation of oxygen generators, inspect combustion heater fuel systems, troubleshoot air-cycle air-conditioning systems, service outflow pressurization valves, and operate and service waste water systems.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	5

AMT 238 Airframe VI

Course Standard

Course Information

Description	This course is designed to develop correct safety practices, comprehensive Knowledge, and technical skills required to perform aviation maintenance procedures that align with the current Airmen Certification Standards. Students will learn to properly: Install airframe electrical wiring, switches, and devices, secure wire bundles, wire termination, determine electrical load, check output voltage of a system, inspect and service landing and operational lighting, trouble shoot electrically heated pitot-static system, inspect thermal anti-ice systems, inspect and operate a deicer boot, inspect and operate electrically heated windshields.
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Career Cluster	Manufacturing
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Instructional Level	Associate of Applied Science
Total Credits	5

AMT 239 Airframe VII

Course Standard

Course Information

Description	This course is designed to develop correct safety practices, comprehensive Knowledge, and technical skills required to perform aviation maintenance procedures that align with the current Airmen Certification Standards. Students will learn to properly: perform a static system leak test, remove and install instruments, inspect and operate a magnetic compass, perform VHF communications checks, inspect and service emergency locator transmitters, troubleshoot fire detection systems, perform operational checks on fire detection and extinguishing systems. Perform 100-hour inspections on an airframe.
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Career Cluster	Manufacturing
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Instructional Level	Associate of Applied Science
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Total Credits	5
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AMT 253 Powerplant I

Course Standard

Course Information

Description	This course develops correct safety practices, comprehensive knowledge, and technical skills required to perform aviation maintenance procedures that align with the current Airmen Certification Standards. Students will learn to properly: troubleshoot, inspect, and install fuel pressure indicators, fuel flow transmitters, tachometer, oil pressure, temperature, EGT, EPR, manifold warning system, low-pressure warning gauges, troubleshoot and repair an engine fire extinguishing system, perform a cylinder compression check, perform an engine start, inspect engine mounts, perform the engine portion of a 100-hour inspection.
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Career Cluster	Manufacturing
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Instructional Level	Associate of Applied Science
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Total Credits	4
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AMT 254 Powerplant II

Course Standard

Course Information

Description This course develops correct safety practices, comprehensive knowledge, and technical skills required to perform aviation maintenance procedures that align with the current Airmen Certification Standards. Students will learn to properly: install pistons and wrist pins, install a cylinder, operate and troubleshoot a reciprocating engine, inspect and rig engine controls, remove and install a propeller, measure propeller blade angle, repair a propeller blade, adjust propeller governors, inspect and service a propeller anti-icing system.

Career Cluster Manufacturing

Instructional Level Associate of Applied Science

Total Credits 5

AMT 255 Powerplant III

Course Standard

Course Information

Description This course develops correct safety practices, comprehensive knowledge, and technical skills required to perform aviation maintenance procedures that align with the current Airmen Certification Standards. Students will learn to properly: inspect, troubleshoot, and repair a continuous flow fuel injection system; remove, inspect, and install a turbine engine fuel nozzle; remove and install a carburetor metering jet; remove and install a float type carburetor, remove and install a fuel pump, adjust fuel pump pressure, inspect fuel selector valve. Students will inspect and troubleshoot oil system components and perform oil pressure adjustments. Students will also inspect turbochargers and air intake manifolds and repair cylinder baffles.

Career Cluster Manufacturing

Instructional Level Associate of Applied Science

Total Credits 5

AMT 256 Powerplant IV

Course Standard

Course Information

Description This course develops correct safety practices, comprehensive knowledge, and technical skills required to perform aviation maintenance procedures that align with the current Airmen Certification Standards. Students will learn to properly: perform turbine engine inlet, and compressor guide vane inspections, map airflow and direction changes inside a turbine engine inspect a combustion liner, troubleshoot causes of engine performance loss, inspect a particle separator, check a bleed air system, perform an induction and cooling system inspection, inspect turbine engine exhaust system and components.

Career Cluster Manufacturing

Instructional Level Associate of Applied Science

Total Credits 6

AMT 257 Powerplant V

Course Standard

Course Information

Description This course develops correct safety practices, comprehensive knowledge, and technical skills required to perform aviation maintenance procedures that align with the current Airmen Certification Standards. Students will learn to properly: troubleshoot an aircraft's electrical generating system, remove and install an engine direct drive electric starter, repair engine electrical systems, fabricate bonding jumpers, inspect engine electrical connectors, set magneto internal timing, time magneto to aircraft engine, troubleshoot and repair ignition systems, inspect ignition harness, troubleshoot engine ignitors, inspect turbine engine ignition systems.

Career Cluster Manufacturing

Instructional Level Associate of Applied Science

Total Credits 5

ART 100 Art Appreciation

Course Standard

Course Information

Description This course is designed to develop a personal appreciation of art. By combining a study of concepts and artist's work, the student should improve one's judgment and ability to understand art critically.

Instructional Level	Associate of Applied Science
Total Credits	3

AVC 102 Precision Instruments

Course Standard

Course Information

Description	This course provides students with the knowledge and skills needed to utilize precision measurement tools in the manufacturing and aerospace environment. In an on line interactive environment students will learn to utilize the different types of tools, interpret the measurement results and apply those results to industry specific scenarios.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	1

AVC 103 Geometric Dimensioning & Tolerancing

Course Standard

Course Information

Alternate Title	Geometric Dimension & Toleran
Description	Provides an understanding of the basic terms and principles of Geometric Dimensioning and Tolerancing. The course provides students with the skills and knowledge necessary to identify GD&T symbols and how to interpret those symbols. This course is taught using and interactive on line environment.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	1

AVC 104 Quality Control Concepts

Course Standard

Course Information

Description	This course covers quality assurance principles including the history of the quality movement, group problem solving, data collection, control charts, statistical
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methods such as statistical process control (SPC), process capability studies, and the concepts associated with lean manufacturing.

Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	1

AVC 105 Aircraft Familiarization

Course Standard

Course Information

Description	This course is designed to provide an introduction to the world of aviation. Using an interactive on line environment students will be introduced to basic aerospace concepts including the history of flight, principles of flight, and the role of regulation in the industry and the primary assemblies and structures of an airplane.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	1

AVC 107 Fundamentals for Aerospace Manufacturing

Course Standard

Course Information

Alternate Title	Fundamentals for Aerospace Mfg
Description	This course provides an overview of the materials and processes used in manufacturing high performance, lightweight, and reliable structures for aerospace products. Emphasis is placed on process evaluation techniques that can be extrapolated to other system areas such as new products and new technology. Instruction will take place using an interactive on line environment.

Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	1

AVC 108 Aircraft Systems & Components

Course Standard

Course Information

Description	This course is designed to provide the aviation student with an in-depth knowledge of the major systems and components of the aircraft. Using an interactive on line environment students will learn the operation of each of the major systems.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	4

AVC 110 Safety/OSHA 10

Course Standard

Course Information

Description	The 10- Hour General Industry Outreach training Program is intended to provide entry-level general industry workers broad awareness on recognizing and preventing hazards on a general industry site. The training covers a variety of safety and health hazards which a worker may encounter at a general industry site. OSHA recommends this training as an orientation to occupational safety and health. Workers must receive additional training on hazards specific to their job. Training will emphasize hazard identification, avoidance, control and prevention, not OSHA standards. Instructional time will be a minimum of 10 hours.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	1

AVC 112 Blueprint Reading

Course Standard

Course Information

Description	This course is an introduction to reading and interpreting blueprints. Topics include blueprint views, lines, dimensions and tolerances and blueprint symbols. Working in an interactive online environment students' learn a systematic approach to reading blueprints.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	2

AVC 117 Hand & Power Tools

Course Standard

Course Information

Description This course provides the technical knowledge used in Aviation and Manufacturing areas related to hand and power tools.

Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	4

AVC 120 Introduction to Sealing

Course Standard

Course Information

Description This course provides an introduction to basic sealing principles; including tools, sealant selection, application processes and cleaning methods. Instruction is delivered using interactive online course content.

Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	1

AVC 125 Bonding and Grounding

Course Standard

Course Information

Description	This course provides an overview of electrical bonding and grounding theory, required tools and procedures and final quality control. Students learn using interactive online content.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	1

AVC 127 Aviation Assembly Core

Course Standard

Course Information

Description	This course provides students with the core knowledge necessary to be successful as an Aviation Sheetmetal Assembler. The topics will include safety, precision measurement, blueprint reading, sealing and electrical bonding techniques as well as quality control.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	7

AVC 135 Hand Tools

Course Standard

Course Information

Description	This course provides an introduction to the various hand tools used in aerospace industry. The course also introduces the student to several aerospace fasteners including temporary fasteners, bolts, and lock bolts, Hi-Lok and rivets.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	1

AVC 137 Precision Measuring

Course Standard

Course Information

Description	This course provides students with the knowledge and skills needed to utilize precision measurement tools in the manufacturing and aerospace environment. Students will learn to utilize the different types of tools, interpret the measurement results and apply those results to industry specific scenarios.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	2

AVC 140 Electrical Bonding & Grounding

Course Standard

Course Information

Description	This course provides the specific technical and manufacturing skills and knowledge required to prepare electrical bonding and grounding locations in the aerospace industry. The topics are presented online using interactive content.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	1

AVC 145 Power Island

Course Standard

Course Information

Description	This course provides the technical knowledge and skills necessary to operate power island equipment. Students are introduced to the equipment using interactive online course content.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	1

AVC 150 Human Factors

Course Standard

Course Information

Description	This course provides students with an overview of the impact of human factors on the safe operation and maintenance of an aircraft. Topics will include a review of 12 most common human factors that can negatively impact the functioning of an aircraft and how to avoid these errors. Case studies will be used to help student apply what they learn to real world situations.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	1

AVC 155 Aircraft Manufacturing Advanced Fastening Practices

Course Standard

Course Information

Alternate Title	Aircraft Manufac Adv Fast Prac
Description	This course provides an overview of the knowledge and technical skills required for the installation of critical aviation structural fastener. These specific fasteners are required above and beyond the normal assembly and require specific techniques for installation.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	1

AVC 160 Aircraft Control Surface Rigging

Course Standard

Course Information

Alternate Title	Aircraft Control Surf Rigging
Description	This course provides an overview of the knowledge and technical skills required to perform maintenance procedures relevant to aircraft control surface rigging.

Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	1

AVC 165 Technical Writing

Course Standard

Course Information

Description	This course provides students with an overview of the process used to create effective technical documents. Topics include the three C's of good technical writing including clarity, conciseness and completeness, the five steps of creating successful technical documents, and the importance of accuracy.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	1

AVC 170 Conflict Resolution

Course Standard

Course Information

Description	This course provides the basics of good communication skills. Topics include the different views of conflict, types of listening skills and techniques for how to be an effective communicator; different conflict management styles such as positional bargaining, collaborative approach and the interest based relational approach.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	1

AVC 190 Aerospace Applied Learning

Course Standard

Course Information

Description	The Aerospace Applied Learning course represents an educational strategy linking the classroom with the acquisition of knowledge in the workplace. Through direct
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observation, reflection and evaluation, students gain an insight into the internship site's work, mission, and audience, how these relate to their academic study, as well as the organization's position in the broader industry or field. Students will produce a critical reflection on their internship experience demonstrating how they have addressed specific learning goals. This course is designed to be available from 4 to 8 credits.

Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	4

AVT 101 Electricity & Electronics I

Course Standard

Course Information

Description	This course is designed to introduce the student to the fundamental concepts of electricity and electronics that involve direct current (dc) and alternating current (ac), including series, parallel and series-parallel resistive circuits, magnetism electro-magnetism, capacitance, inductance, and transformers. The lab portion of this course will provide students with hands on experience with shop grade test equipment while performing experiments. Laboratory experiments are conducted on pre-assembled boards maximizing student productivity and allowing increased instructor interaction and support.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	4

AVT 103 Avionics

Course Standard

Course Information

Description	This course is designed to give an overview of the entire avionics field. All major avionics systems, their components and fundamentals of system interactions will be examined. Common avionics abbreviations and acronyms, relevant FAA regulations, and system usages will be studied.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

AVT 105 Avionics Systems & Troubleshooting

Course Standard

Course Information

Alternate Title	Avionics Sys & Troubleshooting
Description	This course introduces the student to avionics testing and troubleshooting. First, students will study the troubleshooting theory of VHF COM, VHF NAV, ILS, Marker Beacon, DME, Transponder, and Pitot-Static systems. Further study of complex wiring diagrams will help the student relate the theoretical to the practical. Then, in the lab portion of this course, the student will operate the most common avionics test equipment: and will learn to perform standard functional tests: VHF COM, VHF NAV, ILS, Marker Beacon, Transponder, DME, SWR, and operation of a Time Domain Reflectometer. Troubleshooting common avionics problems will also be introduced as students troubleshoot system faults on avionics system trainers and various aircraft.

Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	5

AVT 108 Wiring & Cannon Plug Lab

Course Standard

Course Information

Description	The student will learn methods of construction and repair of avionics system wiring harnesses. Students will learn and perform practice exercises with the most common types of aircraft connectors, tooling, and wiring systems used in today's aircraft.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	2

AVT 110 Communication, Navigation & Surveillance Systems I

Course Standard

Course Information

Alternate Title	Comm,Nav & Surveillance Sys I
Description	This course is the first of two courses which study the electrical and electronic characteristics of typical aircraft electrical instrument systems, communications systems and navigation systems. Students will learn the primary system characteristics and interconnection requirements of typical avionics systems. Students will learn about radio operation and communication theory, VOR, ADF, ELT and other navigation systems.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	5

AVT 112 Communication, Navigation & Surveillance Systems II

Course Standard

Course Information

Description	This course is the second of two courses which study the electrical and electronic characteristics of typical aircraft electrical instrument systems, communications systems and navigation systems. Students will learn the primary system characteristics and interconnection requirements of typical avionics systems. Students will learn about DME, ILS, MLS and other forms of navigation and surveillance systems.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	4

AVT 122 Aircraft and Electronics for NCATT Applications

Course Standard

Course Information

Alternate Title	Aircraft & Elec for NCATT Apps
Description	This class helps student increase the knowledge and skills required to troubleshoot and repair practical electronics projects and prepares the student to be successful

on the avionics primary certification test given by the National Center for Aerospace and Transportation Technologies.

Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	4

AVT 131 Electricity and Electronics II

Course Standard

Course Information

Description	This course is the continuation of AVT 101 and is designed to introduce the student to the fundamental concepts of electricity and electronics that involve direct current (dc) and alternating current (ac), including series, parallel and series-parallel resistive circuits, magnetism electro-magnetism, capacitance, inductance, and transformers. The lab portion of this course will provide students with hands on experience with shop grade test equipment while performing experiments. Laboratory experiments are conducted on pre-assembled boards maximizing student productivity and allowing increased instructor interaction and support.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	4

AVT 137 Fundamentals of Flight

Course Standard

Course Information

Description	The Fundamentals of Flight students will learn the basic forces acting on aircraft in flight, Aircraft primary flight controls, Aircraft secondary flight controls, and the theory of autopilot operation, with an introduction to aircraft flight instruments as well as aircraft navigation, including dead reckoning, ground-based radio navigation, space-based radio navigation. In addition, the course will cover an introduction to aircraft systems such as retractable gear operation and indication. Engine indication and fuel quantity indication will be introduced as well.
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Career Cluster	Manufacturing
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Instructional Level	Associate of Applied Science
Total Credits	3

AVT 145 Troubleshooting Essentials

Course Standard

Course Information

Description	The Troubleshooting Essentials course is designed to teach today's aircraft maintenance technician a logical approach to solving aircraft problems. The course consists of both lecture and hands-on practice provided computer simulations of aircraft systems and related test equipment. Using the simulation, the technician analyzes the fault and chooses maintenance actions such as continuity tests, bench checking, and component swapping that he or she might apply to correct the problem. The simulation program not only evaluates the logic used but also keeps track of the time and expenses incurred by the technician while solving problems.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

AVT 150 UAS Operations

Course Standard

Course Information

Description	This course is an introduction to small unmanned aircraft systems (UAS) including knowledge areas covered on the airman knowledge test for a Remote Pilot Certificate with a Small Unmanned Aircraft Systems Rating. Successful completion will prepare the student for the FAA Part 107 Remote Pilot Certificate.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

AVT 155 Advanced Wiring

Course Standard

Course Information

Description	The Advanced Wiring course will instruct students in the fabrication and installation of electronic wiring interconnect systems. This instruction will include termination of individual stranded wires, shielded wires, twisted shielded pairs, and co-axial cables to cannon plugs, plastic connectors, terminal lugs, and terminal and ground blocks. Through classroom discussion and hands-on training, students will learn handling wire harnesses, ESD protection, proper wire routing, wire protection, electrical bonding, connector buildup, contact insertion, and extraction.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

AVT 170 Soldering

Course Standard

Course Information

Description	In this course, students learn the basic concepts, tools, materials, processes, and skills necessary for hand soldering through-hole and surface-mount chip components.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	2

BAF 103 Finance

Course Standard

Course Information

Description	This course provides an introduction to financial markets, institutions and management in contemporary society. Emphasis is placed on developing an understanding of the financial markets in which funds are traded, the financial institutions participating in facilitating the trade of such funds and the financial principles and concepts behind sound financial management. Topics include financial systems of the United States, business financial management and financing other sectors of the economy.
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Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

BAF 105 Introduction to US Financial System

Course Standard

Course Information

Alternate Title	Intro to US Financial System
Description	This course emphasizes the relevance of monetary instruments, intermediaries and the role of the central banks as they impact local, state, national and international economics. Topics include history and evolution of financial institutions; monetary instruments and flow; and central banking, operation and policies.

Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

BAF 121 Introduction to Bank Management

Course Standard

Course Information

Alternate Title	Intro to Bank Management
Description	Emphasizes the relevance of banks and the economy, bank regulations and policy, bank organizational structure, bank management, the financial institutions' environment, bank deregulation, and asset/liability management.

Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

BIO 100 Biology Review

Course Standard

Course Information

Description This course is designed to help the students increase their knowledge concerning basic biological concepts. It is not intended to replace BIO110 Principles of Biology. Recommended for students planning to take BIO150 Human Anatomy & Physiology or BIO160 Microbiology who have not had a recent life science course, or students wishing to prepare for BIO110 Principles of Biology. This course is graded on a pass/fail scale so students will not be receiving a grade. Students must score 70% of the available points to pass the class.

Instructional Level Associate of Applied Science

Total Credits 1

BIO 110 Principles of Biology

Course Standard

Course Information

Description An introduction to fundamental biological concepts that includes molecular biology, cellular structure and function, human biology, and ecology. Students will have an understanding of the nature of science, levels of organization, bioenergetics, reproduction, inheritance, and the mechanisms of change. Laboratory stresses the process of scientific investigation and observation of biological processes.

Instructional Level Associate of Applied Science

Total Credits 5

BIO 120 Environmental Biology

Course Standard

Course Information

Description An interdisciplinary study of the environment investigating how nature works and how things are interconnected. Based on an understanding of ecological concepts and principles, students examine lifestyle issues and critically analyze the relationship among population, natural resources, land use, agriculture, biodiversity, industrialization and pollution. Environmental problems are examined from scientific, ethical, economic and sociological perspectives to enable students to understand the relevance of biology to contemporary issues in human society.

Instructional Level Associate of Applied Science

Total Credits 3

BIO 125 Science Prospectus

Course Standard

Course Information

Description An interdisciplinary study of how science influences all aspects of human life. Students will examine lifestyle issues and critically analyze the relationship among population, natural resources, land use, agriculture, biodiversity, industrialization and pollution and our role in these processes. Everything from food science to astronomy will be explored. Topics will be centered around problem solving and discussions using scientific data and critical thinking skills.

Career Cluster Science, Technology, Engineering and Mathematics

Instructional Level Associate of Applied Science

Total Credits 3

BIO 130 Biology I

Course Standard

Course Information

Description A study of the fundamental concepts in cellular and molecular biology, that lead to further studies in the diversity of life. Emphasis in lab is placed on the biological functions that define life, including basic biochemistry, cell and membrane functions, bioenergetics, reproduction and genetics, and phylogeny and evolution.

Total Credits 5

BIO 135 Biology II

Course Standard

Course Information

Description A study of the fundamental concepts of biology as they apply to levels of organization, from the bacteria through the vertebrates, and ecosystems. Lecture emphasis is on the organization, physiology, and diversity of life as studied through the kingdoms. Laboratory work emphasizes the structural comparison of major kingdoms and phyla.

Total Credits 5

BIO 145 Human Anatomy & Physiology I

Course Standard

Course Information

Description This course represents the first of an eight (8) credit hour Anatomy & Physiology course and is designed to provide students with a thorough study of the anatomy & physiology of the human body. The student is expected to enroll in the second half of the course (BIO 146 Human Anatomy & Physiology II) during the same academic year, and both courses (BIO 145 Human Anatomy & Physiology I and BIO 146 Human Anatomy & Physiology II) must be taken to be equivalent to BIO 150 Human Anatomy & Physiology. Lecture and lab studies will include: organization of the body; cells; tissues; membranes and glands; skeletal; muscular; nervous; sensory and endocrine system.

Instructional Level Associate of Applied Science

Total Credits 4

BIO 146 Human Anatomy & Physiology II

Course Standard

Course Information

Description This course represents the second of an eight (8) credit hour Anatomy and Physiology course and is designed to provide students with a thorough study of the anatomy and physiology of the human body. The student is expected to enroll in the first half of the course (BIO 145 Human Anatomy & Physiology I) during the same academic year, and both courses BIO 145 Human Anatomy & Physiology I and BIO 146 Human Anatomy & Physiology II must be taken to be equivalent to BIO 150 Human Anatomy & Physiology. Lecture and lab studies will include; the cardiovascular system, lymphatic system, respiratory system, digestive system, metabolism, urinary system, electrolyte and acid-base balance and reproductive systems.

Instructional Level Associate of Applied Science

Total Credits 4

BIO 150 Human Anatomy & Physiology

Course Standard

Course Information

Description	A detailed study of the structure and function of the human body. Laboratory work includes tissue examination, basic physiological experiments and structural identification of all organ systems.
Instructional Level	Associate of Applied Science
Total Credits	5

BIO 151 Anatomy & Physiology Enhancement

Course Standard

Course Information

Alternate Title	Anatomy & Phys Enhancement
Description	This course provides for an elaboration of either the anatomy or the physiology of foundation topics presented in BIO150 Human Anatomy and Physiology. Topics can include cell structure and function, muscular system, nervous system, endocrine system, immune system, cardiovascular system, respiratory system, digestive systems and/or urogenital system. This course is graded on a pass/fail scale and no letter grade will be given. Passing credit will be awarded when the student satisfactorily completes a minimum of 75% of the content assigned for this course. Note: Core content may vary by semester as dictated by student learning assessments. Additional topic lists may be distributed each semester as instructors are not restricted from adding topics for enrichment.
Career Cluster	Health Science
Instructional Level	Associate of Applied Science
Total Credits	1

BIO 160 Microbiology

Course Standard

Course Information

Description	An introduction to microorganisms and their morphology, physiology, genetics and distribution. Emphasis is placed on the relationship of microorganisms to disease and the human immune responses. Techniques involving staining, culturing, identifying and biochemistry are considered in laboratory.
Instructional Level	Associate of Applied Science
Total Credits	5

BUS 104 Introduction to Business

Course Standard

Course Information

Description	Studies various types of business organizations and the relationships of business to government and management to labor. Management's perspective of production, marketing, personnel, finance and transportation is a constant consideration.
Instructional Level	Associate of Applied Science
Total Credits	3

BUS 106 Office Procedures

Course Standard

Course Information

Description	Prepares students to handle situations in an office setting. Students learn office management skills including communication, and organization skills.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

BUS 121 Business Communications

Course Standard

Course Information

Description	Business Communications is designed to cover the communication skills that are necessary in a high technology global business environment. These skills include competencies in written and oral communication; an awareness of international, legal, and ethical issues; the ability to work collaboratively on group projects; and proficiency in using microcomputers.
Instructional Level	Associate of Applied Science
Total Credits	3

BUS 125 Business Law

Course Standard

Course Information

Description	A basic introductory law course covering the legal and social environment within which business operates, including the structure, processes and procedures of the American legal system. A substantial portion of the course is devoted to contracts.
Instructional Level	Associate of Applied Science
Total Credits	3

BUS 130 Personal Finance

Course Standard

Course Information

Description	This course is designed for non-business majors as well as for business majors. The course is concerned with efficient management of money as a primary requirement for successful personal life. Aids individuals in establishing and maintaining credit, using a budget, safeguarding and investing savings and arranging personal insurance.
Instructional Level	Associate of Applied Science
Total Credits	3

BUS 135 Introduction to Public Relations

Course Standard

Course Information

Alternate Title	Intro to Public Relations
Description	In this course students will learn the theories that are the backbone of all public relations practitioners while also learning the roles and responsibilities of those who practice in the field. Students will explore the issues and challenges facing public relations practitioners in today's technological, multicultural and global environment. Students will put their knowledge to the test by creating and presenting a public relations plan.
Total Credits	3

BUS 137 QuickBooks

Course Standard

Course Information

Description	This course introduces students to the fundamental concepts and operations necessary to use QuickBooks. Emphasis is placed on basic functions and familiarity with the QuickBooks software. Topics include: Introduction to basic accounting concepts, introduction to QuickBooks concepts, working with customers and vendors, performing banking tasks, and creating and maintaining computer files.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

BUS 140 Principles of Marketing

Course Standard

Course Information

Description	Production and marketing of goods and services are the essence of economic life in any society. All organizations perform these two basic functions to satisfy their commitments to society, their customers and their owners. Marketing examines the problems of transferring title and moving goods from producer to consumer, buying, selling, storing, transporting, standardizing, financing, risk-bearing and supplying market information. The free enterprise and the government's contribution, retailing and international marketing are discussed at length.
Instructional Level	Associate of Applied Science
Total Credits	3

BUS 145 Dreamweaver

Course Standard

Course Information

Description	This course is designed to introduce the fundamentals of web page authoring using Macromedia Dreamweaver version 8. Emphasis is on developing an understanding of how to plan, design, create, modify and publish a web site.
Career Cluster	Business Management and Administration

Instructional Level	Associate of Applied Science
Total Credits	3

BUS 160 Human Relations

Course Standard

Course Information

Description This course is designed to help employees and supervisors gain human relations skills needed for success at their work site. The case method will be used to analyze situations in which actual job relations are presented.

Career Cluster Business Management and Administration

Instructional Level Associate of Applied Science

Total Credits 3

BUS 180 Business Internship

Course Standard

Course Information

Description The internship represents an educational strategy linking the classroom with the acquisition of knowledge in the workplace. Through direct observation, reflection and evaluation, students gain an insight into the internship site's work, mission, and audience, how these relate to their academic study, as well as the organization's position in the broader industry or field. Students will produce a critical reflection on their internship experience demonstrating how they have addressed specific learning goals.

Career Cluster Business Management and Administration

Instructional Level Associate of Applied Science

Total Credits 3

BUS 200 Principles of Management

Course Standard

Course Information

Description	Explores the basic management functions of planning, controlling organizing and directing an organization. The basic management theories, functions and aspects of various types of business are studied.
Instructional Level	Associate of Applied Science
Total Credits	3

CAT 101 CATIA Part Design & Sketcher

Course Standard

Course Information

Description	This course provides an introduction to the 3D EXPERIENCE platform, including searching, creating and editing objects. This course covers the creation of solid parts without complex contours. Students will be introduced to the part environment of 3D EXPERIENCE and learn how to work between the Sketcher and Part Design workbenches to create individual parts.
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Career Cluster Manufacturing

Instructional Level Associate of Applied Science

Total Credits 4

CAT 102 CATIA Drafting

Course Standard

Course Information

Description	This course covers the creation of engineering drawings. Students will be introduced to the drafting environment of 3DEXperience and learn how to create drawings from parts and products.
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Career Cluster Manufacturing

Instructional Level Associate of Applied Science

Total Credits 4

CAT 103 CATIA 3D Tolerancing & Annotations

Course Standard

Course Information

Alternate Title	CATIA 3D Tolerancing & Annot
Description	This course is for those interested in model based definition, where the 3D model is the master instead of the draft sheet. This course covers all of the necessary options to properly apply tolerancing and annotations on the 3D part or product.
Instructional Level	Associate of Applied Science
Total Credits	4

CAT 105 CATIA Assembly Design

Course Standard

Course Information

Description	This course covers the use of multiple parts to create an assembly. This includes manipulating parts in an assembly, creating engineering connections and analyzing assemblies. It also covers designing within the context of an assembly, including creating and using publications.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	4

CAT 110 CATIA Wireframe & Surfaces

Course Standard

Course Information

Description	This course is an extension of the part environment which covers the use of wireframe and surface geometry to create complex contours. This course concentrates on the tools available and how to integrate this geometry back into a solid part.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	4

CAT 115 CATIA Prismatic Machining

Course Standard

Course Information

Description	This course is the beginning manufacturing course. This course covers the machining operations involved in 3-axis milling. Students will be introduced to the process environment of 3DExperience and learn how to work between the process, part and product environments.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	4

CAT 124 CATIA Surface Machining

Course Standard

Course Information

Description	This course is a continuation in the manufacturing environment. This course covers the more advanced machining operations involved in full 3-axis and multi-axis machining. Students will learn how to integrate the manufacturing tools available in Prismatic Machining and Mill-Turn Machining.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	4

CCP 100 Introductory Craft Skills

Course Standard

Course Information

Description	This course is the Core Curriculum for Introductory Craft Skills under the National Center for Construction Education (NCCER). This course is NCCER's basic course for all construction, maintenance and pipeline occupations. This course covers basic safety obligations of workers, supervisors and managers; reviews the role of company policies and OSHA regulations; introduces trainees to hand and power tools widely used in the construction industry, and their proper uses.
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Students will also become familiarized with basic blueprint terms, components and symbols.

Career Cluster	Architecture and Construction
Instructional Level	Technical Certificate
Total Credits	3

CCP 108 Construction Basics

Course Standard

Course Information

Description	This course is the curriculum for Carpentry Basics under the National Center for Construction Education (NCCER). The course covers eight topics and starts by introducing the carpentry trade, including history, career opportunities, and requirements. The course includes study and practice required for framing a simple structure. Specific topics are building materials, fasteners and adhesives, hand and power tools, reading plans & elevations, floor systems, wall and ceiling framing, roof framing and windows and exterior doors.
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Career Cluster	Architecture and Construction
Instructional Level	Associate of Applied Science
Total Credits	2

CCP 112 Carpentry I

Course Standard

Course Information

Description	Carpentry I is the introductory course in a two-course series. This course, aligned with the NCCER General Carpentry 6th edition modules, provides a comprehensive foundation in carpentry skills. The curriculum encompasses Orientation to Carpentry, Building Materials and Fasteners, Construction Plans and documents, and Principles of Site and Building Layout.
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Career Cluster	Architecture and Construction
Instructional Level	Associate of Applied Science
Total Credits	3

CCP 122 Carpentry II

Course Standard

Course Information

Description	Carpentry II builds upon the foundational skills acquired in Carpentry I. This course focuses on constructing and assembling floor systems, wall systems, roof framing, basic stair layout, and building envelope systems. The curriculum is aligned with the NCCER General Carpentry 6th edition modules, ensuring an industry-relevant learning experience.
Career Cluster	Architecture and Construction
Instructional Level	Associate of Applied Science
Total Credits	3

CCP 124 Exterior Envelope

Course Standard

Course Information

Description	This course is the curriculum for Exterior Envelopes under the National Center for Construction Education (NCCER). This course describes commercial roofing materials and structures and the procedures for installing commercial roofing, such as standing-seam, lap-seam, and built-up roofs. In addition, it provides information about the selection and installation of various types of insulating materials in walls, floors, and attics. It also covers the uses and installation practices for vapor barriers and waterproofing materials. Finally, it covers various exterior finish materials and their installation procedures, including wood, metal, vinyl, and fiber-cement siding.
Career Cluster	Architecture and Construction
Instructional Level	Associate of Applied Science
Total Credits	3

CCP 128 Interior Systems

Course Standard

Course Information

Description	This course is the curriculum for Interior Systems under the National Center for Construction Education (NCCER). The course covers the various types of gypsum drywall, their uses, the fastening devices and installation methods, and detailed instructions for installing drywall on walls and ceilings using nails, drywall screws, and adhesives. It also covers the materials, tools, and methods used to finish and patch gypsum drywall. Instruction on the materials, layout, and installation procedures for many types of suspended ceilings used in commercial construction, ceiling tiles, drywall suspension systems, and pan-type ceilings, is also covered.
Career Cluster	Architecture and Construction
Instructional Level	Associate of Applied Science
Total Credits	2

CCP 134 Introduction to Concrete Construction

Course Standard

Course Information

Alternate Title	Intro to Concrete Construction
Description	This course is the curriculum for Intro to Concrete Construction under the National Center for Construction Education (NCCER). This course covers the properties, characteristics, and uses of cement, aggregates, and other materials that, when mixed, form different types of concrete. In addition, it covers the materials used in the reinforcement of concrete. It also covers the planning process that precedes the start of work on a construction site, including environmental considerations, personnel issues, access roads, traffic control, permits, site safety, utilities, and crane-related concerns. Finally, the course covers the principles of site layout and leveling and the techniques required for working in and around excavations.
Career Cluster	Architecture and Construction
Instructional Level	Associate of Applied Science
Total Credits	3

CCP 138 Advanced Framing

Course Standard

Course Information

Description	This course is the curriculum for Advanced Framing under the National Center for Construction Education (NCCER). This course covers the skills needed to become an effective crew leader - basic leadership skills, safety, and project control. It describes the planning process that precedes the start of work on a
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construction site, including environmental considerations, personnel issues, access roads, traffic control, permits, site safety, utilities, and crane-related concerns. It covers the different wall systems and their installation, including wood and steel framing materials. It also covers guidelines for selecting and installing metal framing for interior and exterior walls, loadbearing and nonbearing walls, partitions, and other applications.

Career Cluster	Architecture and Construction
Instructional Level	Associate of Applied Science
Total Credits	3

CCP 144 Advanced Finish and Trim

Course Standard

Course Information

Description	This course is the curriculum for Advanced Finish under the National Center for Construction Education (NCCER). This course covers the different types of trim used in finish work and focuses on the proper methods for selecting, cutting, and fastening trim to provide a professional finished appearance. The course also offers extensive coverage of the materials and techniques used in finishing wood stairways and the variety of stair systems used in commercial construction.
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Career Cluster	Architecture and Construction
Instructional Level	Associate of Applied Science
Total Credits	3

CCP 148 Vertical and Horizontal Formwork

Course Standard

Course Information

Alternate Title	Vertical & Horizontal Formwork
Description	This course is the curriculum for Vertical and Horizontal Formwork under the National Center for Construction Education (NCCER). This course describes basic site layout tools and methods; layout and construction of deep and shallow foundations; layout and forming of slabs-on-grade; and forms used for curbing and paving. It covers the applications and construction methods for types of forming and form hardware systems for walls, columns, and stairs, as well as slip forms,

climbing forms, and shaft forms. It also covers elevated decks and formwork systems and methods used in their construction.

Career Cluster	Architecture and Construction
Instructional Level	Associate of Applied Science
Total Credits	3

CCP 154 Finishing Concrete

Course Standard

Course Information

Description	This course is the curriculum for Finishing Concrete under the National Center for Construction Education (NCCER). This course covers how tilt-up concrete construction is used, and tilt-up panels are formed, erected, and braced. It reviews the rebar installation and types of embedment used to lift and brace the panels. The methods used to achieve architectural and decorative finishes are also covered. The course also covers the tools, equipment, and procedures for handling, placing, and finishing concrete. It describes how joints are made in concrete structures, the use of joint sealants, and form removal procedures. Safety procedures for handling, placing, and finishing concrete are emphasized.
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Career Cluster	Architecture and Construction
Instructional Level	Associate of Applied Science
Total Credits	2

CCP 155 FEMA Doors & Hardware

Course Standard

Course Information

Description	This course is the curriculum for Doors and Door Hardware under the National Center for Construction Education (NCCER). This course covers the installation of metal doors and related hardware in steel-framed, wood-framed, and masonry walls, along with their related hardware, such as locksets and door closers. The course will also cover requirements for FEMA rated doors, door hardware, and installation. It also covers the installation of wooden doors, folding doors, and pocket doors.
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Career Cluster	Architecture and Construction
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Instructional Level	Associate of Applied Science
Total Credits	1

CCP 168 Equipment Operation

Course Standard

Course Information

Description	This course is the curriculum for Equipment Operation under the National Center for Construction Education (NCCER). Heavy equipment operators are highly skilled workers who are needed on every construction site and in every mining operation. A skilled operator has many opportunities for advancement with an employer or as an entrepreneur. Many large excavating and site-development companies operating today were founded by equipment operators who started with a single machine. This course provides training on common types of equipment and instruments used for finish grading, materials and methods used to stabilize soils and control soil erosion, and finishing and grading methods used for various applications.
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Career Cluster	Manufacturing
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Instructional Level	Associate of Applied Science
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Total Credits	3
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CCP 172 Fundamentals of Crew Leadership

Course Standard

Course Information

Alternate Title	Fundamentals of Crew Leadership
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Description	This course is the curriculum for Fundamentals of Crew Leadership under the National Center for Construction Education (NCCER). This course covers the skills needed to become an effective crew leader. It will help a crew leader who wants to become more effective, as well as a crew member who aspires to become a crew leader. The module covers basic leadership skills, safety, and project control.
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Career Cluster	Manufacturing
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Instructional Level	Associate of Applied Science
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Total Credits	2
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CCP 180 Cabinet Installation

Course Standard

Course Information

Description	This course is the curriculum for Cabinet Installation under the National Center for Construction Education (NCCER). This course covers the selection and installation of base and wall cabinets and countertops.
Career Cluster	Architecture and Construction
Instructional Level	Associate of Applied Science
Total Credits	1

CCP 185 Carpentry Internship I

Course Standard

Course Information

Description	In this course students will have the opportunity to link classroom/ lab theory with an experimental learning opportunity. Through direct observation, reflection and evaluation, students gain an understanding of the internship site's work, mission, and customers. The student will identify how these relate to their program of study, as well as the organization's position in the broader industry or field. Students will produce a critical reflection of their internship experience demonstrating how they have addressed specific learning goals.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

CCP 187 Carpentry Internship II

Course Standard

Course Information

Description	This course is a continuation of Carpentry Internship I in which students continue their work in experiential learning. Through observation, reflection and evaluation, students gain an understanding of the internship site's work, mission, and customers. The student will identify how these relate to their program of study, as well as the organization's position in the broader industry or field. Students will produce a critical reflection of their internship experience, demonstrating how they have addressed specific learning goals.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

CED 108 Word Processing

Course Standard

Course Information

Description	Emphasizes an intensive use of word processing software to create and revise business documents. Topics include: equipment and supplies maintenance and usage, work area management, word processing software, and productivity.
Instructional Level	Associate of Applied Science
Total Credits	3

CED 115 Computer Applications

Course Standard

Course Information

Description	This course introduces students to the fundamental concepts and operations necessary to use computers. Emphasis is placed on basic functions and familiarity with computer use. Topics include: computer terminology, introduction to the windows environment, introduction to networking, introduction to word processing, introduction to spreadsheets, and introduction to databases.
Instructional Level	Associate of Applied Science
Total Credits	3

CED 116 Advanced Word

Course Standard

Course Information

Description	Upon completion of this course students should understand the basic concepts of Word, perform character and paragraph formatting, manage text flow, create and modify tables, work with headers and footers, use illustrations and graphics, create and proof documents, create references and hyperlinks, and perform mail merges.
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Instructional Level	Associate of Applied Science
Total Credits	2

CED 117 Advanced Excel

Course Standard

Course Information

Description	Upon completion of this course students should understand the basic concepts of Excel, be able to format cells, ranges, and worksheets, work with data, use basic and advanced formulas and functions, create and modify charts, insert pictures and shapes to a worksheet.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	2

CED 118 Advanced PowerPoint

Course Standard

Course Information

Description	Upon completion of this course students should understand the basic essentials of PowerPoint, insert and modify text on slides, add tables, graphics, and video to presentations, use transitions and animations, secure and share a presentation. Students should be able to create and present a PowerPoint presentation.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	2

CED 120 Advanced Computer Applications

Course Standard

Course Information

Description	This course enhances computer literacy and meets the needs of students in associate degree and/or certificate programs. The students will learn from hands-
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on experiences, advanced skills in word processing, spreadsheet applications, and graphical presentations in the Windows environment.

Instructional Level	Associate of Applied Science
Total Credits	3

CED 140 Introduction to Social Media and Personal Branding

Course Standard

Course Information

Alternate Title	Intro Social Media & Branding
Description	Students will learn how to use social media platforms to stay in touch with colleagues, promote their business and keep up with news. Students will learn how to build their own personal brand and use the social media platforms to promote themselves.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	2

CFT 101 Introduction to Composites

Course Standard

Course Information

Description	This course provides students with the fundamentals of composite theory in an interactive on line environment. Students then apply the concepts to industry based projects in a 3D interactive online environment and a world class composite laboratory. Topics include the materials, equipment, processes, components and design of polymer composite structures.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	2

CFT 106 Composite Finish Trim

Course Standard

Course Information

Description	This course provides students with an understanding of the processes and procedures use to finish trim composites parts. Topics include safety, documentation, tools, procedures and inspection.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	2

CFT 107 Composite Assembly

Course Standard

Course Information

Description	Composite Assembly teaches the fundamentals of joining composite structures. Adhesive bonding as well as mechanical fasteners are covered. Safe procedures are emphasized. Hole preparation for mechanical fasteners and surface preparation for adhesive bondings are essential elements of this course. The course consists of theory and practical application through hands on projects.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	2

CFT 112 Composite Assembly I

Course Standard

Course Information

Description	Composite Assembly teaches the fundamentals of joining composite structures. Adhesive bonding as well as mechanical fasteners are covered. Safe procedures are emphasized. Hole preparation for mechanical fasteners and surface preparation for adhesive bondings are essential elements of this course. The course consists of theory and practical application through hands on projects.
Career Cluster	Manufacturing

Instructional Level Associate of Applied Science

Total Credits 1

CFT 113 Composite Assembly II

Course Standard

Course Information

Description Composite Assembly II continues the topics learned in Composite Assembly I. In this course students will focus on the skills and techniques associated with non structural bonding. Safe procedures are emphasized. The course consists of theory and practical application through hands on projects.

Career Cluster Manufacturing

Instructional Level Associate of Applied Science

Total Credits 1

CFT 130 Composite Fabrication Methods /Applications

Course Standard

Course Information

Alternate Title Composite Fab Methods/Applicat

Description Fundamentals of composite structure fabrication methods and applications will be covered including, hand lay-up, bonding, vacuum bagging and resin transfer molding. Emphasis will also be placed on composites safety and inspection/testing of composite components.

Career Cluster Manufacturing

Instructional Level Associate of Applied Science

Total Credits 2

CFT 135 Overview of Composite Inspection

Course Standard

Course Information

Alternate Title Overview of Composite Inspect

Description	This course is designed to provide students with an understanding of the inspection process during repair procedures. Students will learn the role of repair technicians in the inspection process. Emphasis will be placed on the importance of documentation in the inspection of repair. This course is an online course and utilizes interactive online content.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	1

CFT 140 Composite Inspection

Course Standard

Course Information

Description	This course is designed to provide students with an understanding of the inspection process during repair procedures. Students will learn the role of repair technicians in the inspection process while obtaining hands on experience in basic NDI testing techniques. Emphasis will be placed on the importance of documentation in the inspection of repair. This course utilizes online, classroom and laboratory learning environments.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	2

CFT 141 Disassemble & Damage Removal Techniques

Course Standard

Course Information

Alternate Title	Disassembly & Damage Removal
Description	This course provides student with the knowledge required to safely and effectively prepare a part for repair. In the lab setting students will learn to effectively remove finish, disassemble and remove damage composite material. Special attention will be paid to developing the student's tactile skills in all these areas. Theory in this course is taught using an interactive on line environment.

Career Cluster	Manufacturing
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Instructional Level	Associate of Applied Science
Total Credits	3

CFT 142 Composite Repair

Course Standard

Course Information

Description	This course is designed to provide students with the knowledge and techniques used for structural repair of aircraft made with composite materials. Students will complete multiple industry based projects designed to challenge their skills with both wet layup and pre preg materials.
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Career Cluster	Manufacturing
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Instructional Level	Associate of Applied Science
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Total Credits	4
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CFT 143 Complex Composite Repairs

Course Standard

Course Information

Description	This course is designed to provide the student with hands on experience working with non- structural composite repairs. Instruction will include learning to solve problems presented in non- production atmospheres in relation to composite repairs. Students will also review case studies and problem solving models.
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Career Cluster	Manufacturing
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Instructional Level	Associate of Applied Science
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Total Credits	3
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CFT 144 Electrical Bonding Repair

Course Standard

Course Information

Description	This course will provide students with the knowledge and skills used in electrical bonding composite repair. Students will learn both theory and application using secondary bonding techniques.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	1

CHM 110 General Chemistry

Course Standard

Course Information

Description	An introduction to chemistry that includes the study of matter, atoms, molecules, chemical arithmetic, chemical reactions, gas laws, acids and bases, organic chemistry and laboratory experimentation.
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Career Cluster	Science, Technology, Engineering and Mathematics
Instructional Level	Associate of Applied Science
Total Credits	5

CHM 125 Chemistry I

Course Standard

Course Information

Description	An introduction to inorganic chemistry with emphasis on atomic structure, molecular bonding and structure, the periodic table, kinetic theory, changes of state, solutions and concentrations, chemical reactions and oxidation-reduction and fundamental organic chemistry. Includes laboratory experimentation.
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Career Cluster	Science, Technology, Engineering and Mathematics
Instructional Level	Associate of Applied Science
Total Credits	5

CHM 135 Chemistry II

Course Standard

Course Information

Description	A continuation of CHM 125 Chemistry I. A presentation of the properties of solutions, chemical kinetics, equilibrium, acid-base theory, thermodynamics, coordination chemistry, organic and biochemistry and electrochemistry. Includes laboratory experimentation.
Career Cluster	Science, Technology, Engineering and Mathematics
Instructional Level	Associate of Applied Science
Total Credits	5

CLD 118 Cloud Fundamentals

Course Standard

Course Information

Description	This course covers cloud services from a business perspective. This includes the business value of cloud computing, cloud types, steps to a successful adoption of the cloud, impact and changes on IT service management, as well as risks and consequences.
Career Cluster	Information Technology
Instructional Level	Associate of Applied Science
Total Credits	3

CLD 121 Object-Oriented Programming (JavaScript)

Course Standard

Course Information

Alternate Title	OOP (JavaScript)
Description	JavaScript is a scripting language of the web. As the web evolves from a static to a dynamic environment, technology focus is shifting from static markup and styling—frequently handled by content management systems or automated scripts—to dynamic interfaces and advanced interaction. Once seen as optional, JavaScript is now becoming an integral part of the web, infusing every layer with its script. Object-Oriented Programming (OOP) refers to using self-contained pieces of code to develop applications. IT professionals call these self-contained pieces of code objects, better known as Classes in most OOP programming languages and Functions in JavaScript. IT professionals use objects as building blocks for our applications. Building applications with objects allows us to adopt some valuable techniques. In this course students will build their understanding

of JavaScript piece by piece, from core principles like variables, data types, conditionals, and functions through advanced topics including loops, closures, DOM printing, and learn Inheritance and Encapsulation since only these two concepts apply to OOP in JavaScript; in JavaScript objects can encapsulate functionalities and inherit methods and properties from other objects.

Career Cluster	Information Technology
Instructional Level	Associate of Applied Science
Total Credits	3

CLD 122 Introduction to Web Development

Course Standard

Course Information

Alternate Title	Intro to Web Development
Description	This course introduces students to basic web design using HTML (Hypertext Markup Language), CSS (Cascading Style Sheets), JavaScript, and PHP. Throughout the course students are introduced to planning and designing effective websites; implementing web pages by writing code; producing a functional, multi-page website; and navigating how to choose and set up a server to host their sites on. The course does not require any prior knowledge of coding or web design.

Career Cluster	Information Technology
Instructional Level	Associate of Applied Science
Total Credits	3

CLD 126 Test Driven Development (JavaScript)

Course Standard

Course Information

Alternate Title	Test Driven Dvlmt (JavaScript)
Description	Programmers shouldn't have to guess whether the software is working correctly. They should be able to prove it, every step of the way. A formal test-driven development (TDD) process allows programmers to build testing into their daily routine. They can run tests many times a day, getting instant feedback on the quality of the code. This course explains how to adopt a TDD mindset and process—vital skills for all modern software developers. Find out what makes a good test, why programmers should be more interested in failure than success, and how to measure and repeatedly run tests. Together students will explore the jargon: test suites, test harnesses, mock and stub objects, and more, how TDD is

used in the most common programming languages, TDD environments, and what tools/frameworks exist to help programmers succeed.

Career Cluster	Information Technology
Instructional Level	Associate of Applied Science
Total Credits	3

CLD 129 Programming Foundations (Swift iOS)

Course Standard

Course Information

Alternate Title	Progrm Foundations (Swift iOS)
Description	Programming Foundations (Swift iOS) will introduce students to the basics of programming and app development using Apple's native language, Swift. This course will provide students with a solid foundation in programming fundamentals that can be carried over into other Object Oriented Programming (OOP) languages such as Python, C#, and JavaScript.

Career Cluster	Information Technology
Instructional Level	Associate of Applied Science
Total Credits	3

CLD 137 C# Programming Language

Course Standard

Course Information

Description	C# is one of the most widely used general-purpose programming languages. As a result, C# is often developers' primary choice for creating a wide range of desktop, cloud, and mobile applications. This course will take students through C# from the ground up in a step-by-step manner. By the end of this course, students will be well versed with the essentials of C# language and be ready to start creating apps with it.
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Career Cluster	Information Technology
Instructional Level	Associate of Applied Science
Total Credits	3

CLD 138 Object-Oriented Programming (Python)

Course Standard

Course Information

Alternate Title	OOP (Python)
Description	Python is an interpreted, object-oriented, high-level programming language with dynamic semantics. Its high-level built in data structures, combined with dynamic typing and dynamic binding, make it very attractive for Rapid Application Development, as well as for use as a scripting or glue language to connect existing components together. Python's simple, easy to learn syntax emphasizes readability and therefore reduces the cost of program maintenance. Python supports modules and packages, which encourages program modularity, object oriented application, and code reuse. Object Oriented Programming (OOP) refers to using self-contained pieces of code to develop applications. IT Professionals call these self-contained pieces of code objects, better known as Classes in Python. IT Professionals use objects as building blocks for scripting and applications which allows us to adopt some valuable techniques. In this course students will build their understanding of Python piece by piece starting with the basics and work into algorithms, standard libraries, GUI development, and generators. At the end of this course students will be fully proficient in python having covered advanced python development as well as parallel and concurrent programming.
Career Cluster	Information Technology
Instructional Level	Associate of Applied Science
Total Credits	3

CLD 141 Test Driven Development (Python)

Course Standard

Course Information

Alternate Title	Test Driven Develop (Python)
Description	Programmers shouldn't have to guess whether software is working correctly. They should be able to prove it, every step of the way. A formal test-driven development (TDD) process allows programmers to build testing into their daily routine. Programmers can run tests many times a day, getting instant feedback on the quality of their code. This course explains how to adopt a TDD mindset and process—vital skills for all modern software developers. Find out what makes a good test, why programmers should be more interested in failure than success, and how to measure and repeatedly run tests. In this course students will get an overview of both unit testing and TDD, why both are crucial for developers, how to set up a development environment for TDD, and go into detail with the pytest unit-

testing framework. In addition too, students will learn best practices and develop test cases in order to master TDD in Python.

Career Cluster	Information Technology
Instructional Level	Associate of Applied Science
Total Credits	3

CLD 143 Web Application Development I (HTML/CSS)

Course Standard

Course Information

Alternate Title	Web App Dev I (HTML/CSS)
Description	CSS is a stylesheet language that allows you to control the appearance of your webpages, and HTML is the programming language that powers the web. Like any language, once you master it, you can begin to create your own content, whether that's simple websites or complex web applications. In this hands-on course, we will take an in-depth look at the syntax of HTML and best practices for writing with CSS and JavaScript to create rich, engaging user experiences. Plus, at the end of the course, you'll walk away with an actual project—an online résumé page.

Career Cluster	Information Technology
Instructional Level	Associate of Applied Science
Total Credits	3

CLD 147 Website Production & Management (Word Press)

Course Standard

Course Information

Alternate Title	Website Production & Mgmt
Description	This course is designed to teach students the necessary skills to build, customize, manage and promote a business website using the content management system WordPress. In this project-based course, students will apply classroom knowledge and skills to successfully launch a site on a live web server.

Career Cluster	Information Technology
Instructional Level	Associate of Applied Science

Total Credits 3

CLD 152 Web Application Development II (REACT)

Course Standard

Course Information

Alternate Title Web App Dev II (REACT)

Description React is a JavaScript library for building user interfaces to fetch rapidly changing data that needs to be recorded and is maintained by Facebook for the development of single-page or mobile applications. The effectiveness of [React.js](https://reactjs.org/) stands out. It relies on reusable components, not templates, for UI development, allowing developers to render views where data changes over time. React applications are more scalable, maintainable, and makes developers more efficient. In this hands-on course, you will learn [React.js](https://reactjs.org/) and grow your skills through several browser-based projects leading to the completion of several web applications.

Career Cluster Information Technology

Instructional Level Associate of Applied Science

Total Credits 3

CLD 158 Multi-Cloud Development Services

Course Standard

Course Information

Alternate Title Multi-Cloud Develop Services

Description Cloud computing impacts all careers, and an awareness of the opportunities associated with this emerging field is critical. Developers need to understand what it means to develop on and migrate to the cloud—and comprehend the overall landscape before diving into the platform. In this hands-on course, you will get a high-level overview just for developers, focusing on the features and services in a multi-cloud development environment using Google Cloud, Amazon Web Services, and Microsoft Azure.

Career Cluster Information Technology

Instructional Level Associate of Applied Science

Total Credits 3

CLD 166 Cloud Application Development I (REACT on AWS)

Course Standard

Course Information

Alternate Title	Cloud App Dev I (REACT on AWS)
Description	Traditionally, companies have built and deployed web applications where they have some degree of control typically running on a server and are responsible for provisioning and managing the resources for it. The issues associated with this process, including server uptime, maintenance costs, managing security, and scalability is driving the realization that it is more competitive to run applications on the cloud. In this hands-on course, designed for developers that would like to build full-stack applications on Amazon Web Services, students will make a full-stack React application by creating a note-taking app from scratch. By guiding students, step-by-step through both the frontend and the backend, students will cover all the different aspects of building their first full-stack React app on the cloud.
Career Cluster	Information Technology
Instructional Level	Associate of Applied Science
Total Credits	3

CLD 168 AWS Cloud Practitioner

Course Standard

Course Information

Description	To date, when it comes to market share Amazon Web Services currently holds 47.8%, followed by Microsoft Azure at 15.5%, Alibaba Cloud at 7.7%, Google at 4%, and IMB at 1.8%. Get up to speed with one of the most popular and powerful cloud solutions on the market—Amazon Web Services (AWS). In this hands-on course, students will deepen their understanding of Amazon Web Services (AWS) through enterprise security, high availability, controlling cost, and preparing an AWS solution.
Career Cluster	Information Technology
Instructional Level	Associate of Applied Science
Total Credits	3

CLD 169 Machine Learning and AI Foundations with Predictive Analytics

Course Standard

Course Information

Alternate Title	Machine Learning and AI Fdn
Description	There is a lot to learn to stay on top of a rapidly expanding universe of AI and machine learning. In addition, predictive analytics is one of the richest disciplines within the realm of data science; together artificial intelligence, machine learning, and predictive analytics form a very lucrative skillset for an ever-increasing competitive market. In this hands-on course, students will be exposed to a healthy range of topics to learn and advance their skillset in AI, ML, and data science. In addition too, students will learn the tools and techniques for using data to predict future outcomes in order to get up to date with the latest advancements.
Career Cluster	Information Technology
Instructional Level	Associate of Applied Science
Total Credits	3

CLD 170 Cloud Application Development II (Serverless REACT on AWS)

Course Standard

Course Information

Alternate Title	Cloud App Dev II (Serverless)
Description	Traditionally companies have built and deployed web applications where they have some degree of control typically running on a server and are responsible for provisioning and managing the resources for it. There are a few issues with this be it server uptime, maintenance costs, managing security, and scalability. It is far more competitive now to run applications on the cloud. Serverless computing (or serverless for short), is an execution model where the cloud provider (AWS, Azure, or Google Cloud) is responsible for executing a piece of code by dynamically allocating the resources. And only charging for the amount of resources used to run the code. The code that is sent to the cloud provider for execution is usually in the form of a function. Hence serverless is sometimes referred to as “Functions as a Service” or “FaaS”. This hands-on course is meant for developers that would like to build full-stack serverless applications. By guiding students step-by-step through both the frontend and the backend they will cover all the different aspects of building their first full automated full-stack serverless React app on the cloud.
Career Cluster	Information Technology
Instructional Level	Associate of Applied Science
Total Credits	3

CLD 174 Cloud Capstone

Course Standard

Course Information

Description	In this course students, will have the opportunity to link classroom/lab theory with a capstone learning opportunity. Through hands on application, reflection and evaluations, students will demonstrate integrated knowledge and growth in the field of information technology. Students will produce a critical reflection on their capstone experience demonstrating how they have addressed specific learning goals.
Career Cluster	Information Technology
Instructional Level	Associate of Applied Science
Total Credits	3

CLD 175 Information Technology Internship

Course Standard

Course Information

Alternate Title	Info Technology Internship
Description	In this course, students will have the opportunity to link classroom/lab theory with an experimental learning opportunity. Through direct observation, reflection and evaluation, students gain an understanding of the internship site's work, mission, and customers, how these relate to their program of study, as well as the organization's position in the broader industry or field. Students will produce a critical reflection on their internship experience demonstrating how they have addressed specific learning goals.
Career Cluster	Information Technology
Instructional Level	Associate of Applied Science
Total Credits	3

CNU 010 Certified Nurse Aide Update

Course Standard

Course Information

Description	This course is for students who originally certified as a Nursing Assistant in the State of Kansas and have not worked in a Health Care Setting for two or more
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years. This class will prepare students to return to the Health Care Setting under the direct supervision of a licensed nurse as a Certified Nurse Assistant.

Career Cluster	Health Science
Instructional Level	Certificate of Completion
Total Credits	1

Communication Elective

Course Standard

Course Information

Description	This course is the placeholder for the communication elective. Students may enroll in the following courses to fulfill the communication elective: SPH101 Public Speaking or SPH 111 Interpersonal Communication.
Instructional Level	Associate of Applied Science
Total Credits	3

CRJ 101 Introduction to Criminal Justice

Course Standard

Course Information

Alternate Title	Intro to Criminal Justice
Description	Provides an introduction to the historical development and the internal and external issues of the various components of the criminal justice system including police, corrections and the courts. The student will illustrate how these interrelated components result in the administration of justice today.
Career Cluster	Law, Public Safety, Corrections and Security
Instructional Level	Associate of Applied Science
Total Credits	3

CRJ 105 Criminal Investigation

Course Standard

Course Information

Description	Explores issues including the effective interview and interrogation techniques, crime scene management and lab processes, crime scene documentation methods, case preparation and court presentation.
Career Cluster	Law, Public Safety, Corrections and Security
Instructional Level	Associate of Applied Science
Total Credits	3

CRJ 110 Criminal Law

Course Standard

Course Information

Description	Examines the history, scope and nature of law. It focuses on the the parties to a crime; classification of offenses; criminal acts and intent; the capacity to commit crime; and criminal defenses. It will cover the elements of misdemeanor and felony crimes.
Career Cluster	Law, Public Safety, Corrections and Security
Instructional Level	Associate of Applied Science
Total Credits	3

CRJ 115 Agency Administration

Course Standard

Course Information

Description	Conducts a practical analysis of modern administration theory and supervisory, management principles and their application to the unique operating problems of criminal justice organizations.
Career Cluster	Law, Public Safety, Corrections and Security
Instructional Level	Associate of Applied Science
Total Credits	3

CRJ 120 Juvenile Delinquency and Justice

Course Standard

Course Information

Alternate Title	Juvenile Delinquency & Justice
Description	Examines the historical precedents and philosophical reasons for treating juveniles differently from adults. Reviews empirical evidence about child development that can illuminate the reasons for their special status within the system. It will study the major theories that have been proposed as explanations of delinquent behavior. The course will also provide a detailed overview of the juvenile justice system, from its beginnings to the current state of the institution.
Career Cluster	Law, Public Safety, Corrections and Security
Instructional Level	Associate of Applied Science
Total Credits	3

CRJ 125 Law Enforcement Operations and Procedures

Course Standard

Course Information

Alternate Title	Law Enforcement Ops & Proc
Description	Examines the role of police in society and the application of key concepts to policing scenarios. Students identify, discuss and assess critical police practices and processes to include deployment, arrest procedures, search strategies and other operational considerations.
Career Cluster	Law, Public Safety, Corrections and Security
Instructional Level	Associate of Applied Science
Total Credits	3

CRJ 130 Criminal Procedures

Course Standard

Course Information

Description	Introduces basic court system procedures and the jurisdiction of the courts. It also focuses on the constitutional and other legal requirements that affect law enforcement practices and procedures. Specific topics include confessions and
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interrogations, identification procedures, arrest, search and seizure, and admissibility of evidence.

Career Cluster	Law, Public Safety, Corrections and Security
Instructional Level	Associate of Applied Science
Total Credits	3

CRJ 135 Criminal Justice Interview and Report Writing

Course Standard

Course Information

Alternate Title	Criminal Just Interview & Rpt
Description	Focuses on the unique types of writing required in a criminal justice career. Students are required to gather pertinent information and then record that information by writing a variety of report narratives representative of those prepared by individuals working in a profession within the criminal justice system.

Career Cluster	Law, Public Safety, Corrections and Security
Instructional Level	Associate of Applied Science
Total Credits	3

CRJ 140 Professional Responsibility in Criminal Justice

Course Standard

Course Information

Alternate Title	Prof Responsibility Crim Just
Description	Explores the major components involved in the study of ethics, particularly as it applies to the field of criminal justice. Focus is placed on the code of conduct and ethics of the criminal justice profession and the standards held to in their professional role. The aim of the course is to produce professionals who are not only critical thinkers, but who have the skills necessary to pursue sound ethics in their day-to-day decisions and activities.

Career Cluster	Law, Public Safety, Corrections and Security
Instructional Level	Associate of Applied Science
Total Credits	3

CRJ 145 Corrections

Course Standard

Course Information

Description	This course provides an introduction into the history of corrections, philosophical background, processes, institutions, parole, probation and offender reentry. Correctional theories and the relationship with other facets of the criminal justice system are examined.
Career Cluster	Law, Public Safety, Corrections and Security
Instructional Level	Associate of Applied Science
Total Credits	3

CRJ 155 Policing Diverse Cultures

Course Standard

Course Information

Description	This course examines the challenges and opportunities law enforcement faces providing public safety services in culturally diverse communities. The influences of culture, ethnicity, race, sexual orientation, and socioeconomic class will also be discussed.
Career Cluster	Law, Public Safety, Corrections and Security
Instructional Level	Associate of Applied Science
Total Credits	3

CRJ 160 Internship in Criminal Justice

Course Standard

Course Information

Description	The purpose of the internship program is to allow students an opportunity to gain knowledge and experience in law enforcement and public safety services and further explore careers in the field with a focus on urban policing.
Career Cluster	Law, Public Safety, Corrections and Security

Instructional Level	Associate of Applied Science
Total Credits	3

CRJ 180 KLETC or Equivalent Law Enforcement Academy Training

Course Standard

Course Information

Alternate Title	KLETC/Law Enf Acad Trng
Description	This course provides credit for the training required for certified law enforcement officers in the state of Kansas. This credit is awarded through the completion of the Kansas Law Enforcement Training Center or other appropriate Law Enforcement Academy.
Career Cluster	Law, Public Safety, Corrections and Security
Instructional Level	Associate of Applied Science
Total Credits	12

CPR 001 CPR for Healthcare Providers

Course Standard

Course Information

Description	Designed for practitioners whose primary work environment is in a clinical setting or those providing direct patient care. This is the most comprehensive credential, and it is often a prerequisite for advanced training courses. Suggested participants include: physicians, dentists, nurses, paramedics, EMTs, respiratory therapists, pharmacists, medical or nursing assistants and other allied health professionals.
Career Cluster	Health Science
Instructional Level	Associate of Applied Science
Total Credits	1

CUL 105 Culinary Fundamentals

Course Standard

Course Information

Description The Culinary Fundamentals course offers an overview of rudimentary cooking skills and techniques as well as basic knife skills. Students will experience instructional demonstrations and gain experience building their skills (roast, sauté, sear, pan fry, boil, simmer, braise, blanch, grill, broil) with a variety of ingredients (proteins, starches and vegetables). Additional topics and instruction in this course include sauces, plate presentation and garnishes. Culinary vocabulary is introduced in this course and carried throughout the program.

Career Cluster Hospitality and Tourism

Instructional Level Associate of Applied Science

Total Credits 3

CUL 110 Introduction to Gastronomy & Sustainability

Course Standard

Course Information

Alternate Title Gastronomy & Sustainability

Description The Introduction to Gastronomy and Sustainability course introduces students to a number of basic scientific principles underpinning the methodology of cooking, food preparation and the enjoyment of food. Students will gain knowledge of the consumption of cooked food, the physiological and evolutionary implication of the senses, geographic and cultural influences on food, and the rationale behind food preparation. Topics and skills include an understanding of the coupling of senses to improve sense stimulation; altering flavor by chemical means; and modification of the coloration to improve the appearance of dishes.

Career Cluster Hospitality and Tourism

Instructional Level Associate of Applied Science

Total Credits 3

CUL 115 Culinary Nutrition

Course Standard

Course Information

Description The Culinary Nutrition course introduces the roles of proteins, carbohydrates, fats and the process of metabolism in the human body. The students will be given opportunities to understand the benefits and limitations of specific dietary protocols. Students will build their skills in adapting recipes from traditional diets to meet therapeutic protocols. These protocols are the industry standard for specific dietary needs and students will learn to identify and use the therapeutic ingredients. Instructional demonstrations will include scratch recipes and information related to culinary innovation. The goal of the course is for students to understand how one's diet influences their holistic lifestyle.

Career Cluster Hospitality and Tourism

Instructional Level Associate of Applied Science

Total Credits 3

CUL 120 Modern Banquet Cookery

Course Standard

Course Information

Description The Modern Banquet Cookery course provides best practices and instructional strategies for the industry standard in executing banquets and catering events. This course focuses on maintaining food quality and is based in foundational cooking methodology.

Career Cluster Hospitality and Tourism

Instructional Level Associate of Applied Science

Total Credits 3

CUL 125 Baking & Pastry Skill Development

Course Standard

Course Information

Alternate Title Baking & Pastry Skill Dvlpmnt

Description The Baking and Pastry Skill Development course provides an introduction to basic baking and pastry skills including yeast breads, pastry doughs, quick breads, savory items, cookies, pies and cakes, frozen desserts, custards, soufflés, and chocolates, desserts plating techniques and garnishes. The course focuses on sustainability and the use of seasonal ingredients.

Career Cluster	Hospitality and Tourism
Instructional Level	Associate of Applied Science
Total Credits	3

CUL 130 Culinary Innovation & Sustainability

Course Standard

Course Information

Alternate Title	Culinary Innovation & Sustain
Description	The Culinary Innovation and Sustainability Course provides a strong focus on customer service. Instruction is structured using "Design Thinking" within the context of a social, environmental, fiscal and personal sustainability with particular emphasis given to the "citizen chef".
Career Cluster	Hospitality and Tourism
Instructional Level	Associate of Applied Science
Total Credits	3

CUL 133 Bistro Practicum I

Course Standard

Course Information

Description	Immerse yourself in the dynamic world of culinary entrepreneurship in this practicum class. Under faculty guidance, students will rotate through diverse roles, managing all aspects of a student-run restaurant. This hands-on experience enhances culinary skills, fosters teamwork, and provides insights into real-world restaurant operations. From crafting menus to food preparation and customer service, students gain practical expertise while refining communication, problem-solving, and time management abilities. This course equips aspiring culinary professionals with the skills and confidence for success in the restaurant industry.
Career Cluster	Hospitality and Tourism
Instructional Level	Associate of Applied Science
Total Credits	3

CUL 135 Cuisines and Cultures of the United States

Course Standard

Course Information

Alternate Title	Cuisines & Cultures of U.S.
Description	The Cuisines and Cultures of the United States course offers the students instruction and experiences preparing, tasting, serving and evaluating traditional and regional dishes of the United States of America. Topics include exploring the flavor profiles, preparations and techniques representative of the cuisines from New England, the Mid-Atlantic, the South, the Floribbean, Cajun / Creole, the Midwest, Texas, the Southwest, the Rocky Mountains, California, Pacific Northwest, Alaska and Hawaii.
Career Cluster	Hospitality and Tourism
Instructional Level	Associate of Applied Science
Total Credits	3

CUL 137 Bistro Practicum II

Course Standard

Course Information

Description	Delve deeper into the art of culinary creation in this advanced practicum. Building upon foundational skills, students will embark on a journey of creative menu innovation. Guided by experienced faculty, participants will curate unique dining experiences, experimenting with flavors, techniques, and presentation. Through this hands-on exploration, students will refine their culinary voice, mastering the balance between tradition and innovation. Engaging in specialized roles within the student-run restaurant, they will further elevate their teamwork, leadership, and critical thinking abilities. This course is tailored for those aspiring to lead culinary trends and excel in the evolving gastronomic landscape. This course is designed as the second Bistro Practicum course in a series of four.
Career Cluster	Hospitality and Tourism
Instructional Level	Associate of Applied Science
Total Credits	3

CUL 140 Global Cuisines and Cultures

Course Standard

Course Information

Description	The Global Cuisines and Cultures course offers the student instruction and experiences preparing, tasting, serving and evaluating traditional and regional dishes of the Caribbean, Central and South America, Africa and Persia. Topics include exploring the flavor profiles, preparations and techniques representative of the cuisines from the Caribbean, Mexico, Brazil, Argentina, Chile, South Africa, Ethiopia, The DRC, Lebanon, The Arab Emirates and Iran.
Career Cluster	Hospitality and Tourism
Instructional Level	Associate of Applied Science
Total Credits	3

CUL 143 Bistro Practicum III

Course Standard

Course Information

Description	Delve deeper into the art of culinary creation in this advanced practicum. Building upon foundational skills, students will embark on a journey of creative menu innovation. Guided by experienced faculty, participants will curate unique dining experiences, experimenting with flavors, techniques, and presentation. Through this hands-on exploration, students will refine their culinary voice, mastering the balance between tradition and innovation. Engaging in specialized roles within the student-run restaurant, they will further elevate their teamwork, leadership, and critical thinking abilities. This course is tailored for those aspiring to lead culinary trends and excel in the evolving gastronomic landscape. This course is designed as the third Bistro Practicum course in a series of four.
Career Cluster	Hospitality and Tourism
Instructional Level	Associate of Applied Science
Total Credits	3

CUL 145 Cuisines and Cultures of the Mediterranean

Course Standard

Course Information

Alternate Title	Cuisine/Culture Mediterranean
Description	The Cuisines and Cultures of the Mediterranean course offers the student instruction and experiences preparing, tasting, serving and evaluating traditional and regional dishes of the Mediterranean. Topics include exploring the flavor profiles, preparations and techniques representative of the cuisines from North, Central and South Italy, Spain, Portugal, Greece, the Middle East and North Africa.

Career Cluster	Hospitality and Tourism
Instructional Level	Associate of Applied Science
Total Credits	3

CUL 147 Bistro Practicum IV

Course Standard

Course Information

Description	Delve deeper into the art of culinary creation in this advanced practicum. Building upon foundational skills, students will embark on a journey of creative menu innovation. Guided by experienced faculty, participants will curate unique dining experiences, experimenting with flavors, techniques, and presentation. Through this hands-on exploration, students will refine their culinary voice, mastering the balance between tradition and innovation. Engaging in specialized roles within the student-run restaurant, they will further elevate their teamwork, leadership, and critical thinking abilities. This course is tailored for those aspiring to lead culinary trends and excel in the evolving gastronomic landscape. This course is designed as the fourth Bistro Practicum course in a series of four.
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Career Cluster	Hospitality and Tourism
Instructional Level	Associate of Applied Science
Total Credits	3

CUL 150 Cuisines and Cultures of Northern Europe

Course Standard

Course Information

Alternate Title	Cuisine/Culture North Europe
Description	The Cuisines and Cultures of Northern Europe course offers the student instruction and experiences preparing, tasting, serving and evaluating traditional and regional dishes of Northern Europe. Topics include exploring the flavor profiles, preparations and techniques representative of the cuisines from France: Provence, Alsace, Bordeaux, Burgundy and Paris; Germany, Austria, Switzerland, Scandinavia, Great Britain, Eastern Europe.

Career Cluster	Hospitality and Tourism
Instructional Level	Associate of Applied Science
Total Credits	3

CUL 155 Cuisines and Cultures of Asia

Course Standard

Course Information

Description	The Cuisines and Cultures of Asia course offers the student instruction and experiences preparing, tasting, serving and evaluating traditional and regional dishes of the Asia. Topics include exploring the flavor profiles, preparations and techniques representative of the cuisines from China, Korea, Japan, Vietnam, Thailand, and India.
Career Cluster	Hospitality and Tourism
Instructional Level	Associate of Applied Science
Total Credits	3

CUL 160 Garde Manger

Course Standard

Course Information

Description	"Garde Manger" is the name of the discipline, the position in the kitchen, and the physical environment in the kitchen in which it is performed. In the kitchen, it is a cool, well-ventilated area where cold dishes (such as salads, hors d'oeuvres, appetizers, canapes, pates and terrines) are prepared and other foods are stored under refrigeration. The person in charge of this area is known as the chef garde manager or the pantry chef. This course provides students with a basic understanding and instruction on preparatory skills which produce cold soups, sauces, salads, sandwiches, cured and smoked foods; sausages, terrines, pates, galantines and roulades; cheese, appetizers and hors d'oeuvre; condiments, crackers and pickles as well as buffet development. Additional topics in this course include buffet plating and presentation as well as cheese and charcuterie board design.
Career Cluster	Hospitality and Tourism
Instructional Level	Associate of Applied Science
Total Credits	3

CUL 165 Culinary Arts Internship

Course Standard

Course Information

Description	This course offers professional experience in the context of an educationally focused internship. Students will be placed in a culinary industry setting for the completion of this course.
Career Cluster	Hospitality and Tourism
Instructional Level	Associate of Applied Science
Total Credits	3

CUL 170 Advanced Baking: Chocolate and Confectionary Techniques

Course Standard

Course Information

Alternate Title	Advanced Baking: Chocolate
Description	The Advanced Baking: Chocolate and Confectionary Techniques course offers the student instruction and experiences preparing, tasting, serving and evaluating traditional and contemporary chocolates, confectionary items, cookies, bon bons, petite fours and macaroons. Course activities include instruction that develops a working knowledge of ingredients, flavor profiles, preparations and techniques representative of chocolates and confectionary items of France, Italy, Switzerland and the United States.
Career Cluster	Hospitality and Tourism
Instructional Level	Associate of Applied Science
Total Credits	3

CUL 175 Advanced Baking: Cakes and Desserts

Course Standard

Course Information

Alternate Title	Adv Baking: Cakes and Desserts
Description	The Advanced Baking: Cakes and Desserts course offers the student instruction and experiences preparing, tasting, serving and evaluating traditional and contemporary quick breads and cakes, custards, creams, mousses and soufflés, icings, glazes, sauces, frozen desserts and fruit desserts. Course activities include instruction that develops a working knowledge of ingredients, flavor profiles, preparations and techniques representative of cakes and desserts of France, Italy and Great Britain and the United States.

Career Cluster	Hospitality and Tourism
Instructional Level	Associate of Applied Science
Total Credits	3

CUL 180 Advanced Baking: Breads and Rolls

Course Standard

Course Information

Alternate Title	Adv Baking: Breads and Rolls
Description	The Advanced Baking: Breads and Rolls course offers the student instruction and experiences preparing, tasting, serving and evaluating traditional and contemporary breads and pastries. Course activities include instruction that develops a working knowledge of ingredients, flavor profiles, preparations and techniques representative of breads and pastries of France, Italy and Great Britain and the United States.

Career Cluster	Hospitality and Tourism
Instructional Level	Associate of Applied Science
Total Credits	3

CWG 103 Blue Print Reading for Welders

Course Standard

Course Information

Description	Blue Print Reading for Welders gives instruction in the universal language of drawing interpretation from which information is conveyed for the manufacture of parts and assemblies. Students will fabricate a total of 4-5 projects from shop drawings. Welding symbols and abbreviations for well- meant fabrications: fillet welds, groove welds, back or backing and melt thru welds, plug and slot welds, surfacing welds, edge welds, spot welds, projection welds, seam welds, stud welds.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science

CWG 105 Welding Safety & Orientation

Course Standard

Course Information

Description	The primary purpose of this course is to introduce and familiarize new students with the use and safety precautions to consider when using welding related equipment. The equipment in WSU Tech's welding lab compares to what is currently used by Industry. This course will enable a person who has never before used the equipment to set up and use it in an appropriate manner at an entry level and, doing so, meet safety standards. A separate safety exam will be given at the end of demonstrating the use and hazards it presents. Before students can use any piece of equipment on their own, they have to attain a score of 100% on the safety exam. Equipment in the lab that is excluded from the safety training may only be used under direct supervision of an instructor who is within an arm's length away.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	1

CWG 110 Welding Applications

Course Standard

Course Information

Description	In this course student will learn the basic elements of SMAW, GMAW and GTAW. Additionally, students learn the equipment, processes and skills associated with welding cutting equipment.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	4

CWG 115 SMAW

Course Standard

Course Information

Description Through classroom and/or lab/shop learning and assessment activities, students in this course will: describe the Shielded Metal Arc Welding process (SMAW); demonstrate the safe and correct set up of the SMAW workstation; associate SMAW electrode classifications with base metals and joint criteria; demonstrate proper electrode selection and use based on metal types and thicknesses; demonstrate a surfacing weld with selected electrodes in the flat and horizontal positions; perform SMAW welds on selected weld joints; and perform visual inspection of welds.

Career Cluster Manufacturing

Instructional Level Associate of Applied Science

Total Credits 3

CWG 116 SMAW II

Course Standard

Course Information

Description This course is designed to give students learning opportunities in the form of assessments and activities in the classroom, lab and/or shop. Students in this course will: describe the Shielded Metal Arc Welding process (SMAW); demonstrate the safe and correct set up of the (SMAW) workstation; associate (SMAW) electrode classifications with base metals and joint criteria; demonstrate proper electrode selection and use based on metal types and thicknesses; build t-joint and lap weld beads with selected electrodes in the flat position; build t-joint and lap weld beads with selected electrodes in the horizontal position; perform basic (SMAW) welds on selected metal thicknesses; and perform visual inspection of said welds. Student will also start out of position welds in the vertical (3) and overhead (4) positions. Including but not limited to fillet and groove welds.

Career Cluster Manufacturing

Instructional Level Associate of Applied Science

Total Credits 4

CWG 120 GMAW

Course Standard

Course Information

Description Through classroom and/or shop/lab learning and assessment activities, students in this course will: explain gas metal arc welding process (GMAW); demonstrate the safe and correct set up of the GMAW workstation; correlate GMAW electrode classifications with base metals and joint criteria; demonstrate proper electrode

selection and use based on metal types and thicknesses; perform surfacing welds with selected electrodes in the flat position; perform surfacing welds with selected electrodes in the horizontal position; produce basic GMAW welds on selected weld joints; and conduct visual inspection of GMAW welds.

Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

CWG 121 GMAW II

Course Standard

Course Information

Description	Through classroom and/or shop/lab learning and assessment activities, students in this course will: explain gas metal arc welding process (GMAW); demonstrate the safe and correct set up of the GMAW work station. Correlate GMAW electrode classifications with base metals and joint criteria; demonstrate proper electrode selection and use based on metal types and thicknesses. Build t-joint and lap-joint with selected electrodes in the flat position; build t-joint and lap-joint with selected electrodes in the horizontal position; perform basic GMAW welds. Student will perform welds in the vertical (3) and overhead (4) positions; this will include, but not limit to, fillet welds and groove welds.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	4

CWG 125 GTAW

Course Standard

Course Information

Description	Through classroom and/or lab/shop learning and assessment activities, students in this course will: explain the gas tungsten arc welding process (GTAW); demonstrate the safe and correct set up of the GTAW workstation; relate GTAW electrode and filler metal classifications with base metals and joint criteria; build proper tungsten electrode and filler metal selection and use based on metal types and thicknesses; perform surfacing welds with selected tungsten electrodes and filler material in the flat position; perform surfacing welds with selected tungsten electrodes and filler material in the horizontal position; perform basic GTAW welds on selected weld joints; and perform visual inspection of GTAW welds.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

CWG 126 GTAW II

Course Standard

Course Information

Description	Through classroom and/or shop/lab learning and assessment activities, students in this course will: explain the gas tungsten arc welding process (GTAW); demonstrate the safe and correct set up of the (GTAW) work station; correlate (GTAW) electrode and fill metals classifications with base metals and joint criteria; demonstrate proper tungsten electrode and filler metal selection used based on metal types and thicknesses. Students will build t-joint and lap-joints with selected electrodes and filler metal in the flat position; build t-joint and lap-joints with selected tungsten electrodes and filler metal in the horizontal position; perform basic (GTAW) welds. Students will perform welds in the vertical (3) and overhead (4) positions; this will include but not be limited to fillet welds and groove welds. Students will also be introduced to aluminum and stainless steel.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	4

CWG 130 Robotic Welding

Course Standard

Course Information

Description	This course is designed to give students learning Robotic Welding opportunities in the form of assessments and activities in the classroom, lab and/or shop. Topics in the course will include robot axes, programing, backups and protection, safety, and maintenance of the welding and robot equipment.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	1

CWG 141 Oxy Acetylene Welding & Cutting

Course Standard

Course Information

Alternate Title	Oxy-Acetylene Weld & Cutting
Description	The Oxy-Acetylene Welding and Cutting Course is designed to introduce students to the competencies required to safely and successfully demonstrate oxy-acetylene techniques in the classroom, lab and shop setting.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	2

CWG 145 Fabrication & Design

Course Standard

Course Information

Description	This course is designed to provide students with the opportunity to apply fabrication and design principles to student projects.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	2

CWG 149 Materials & Testing

Course Standard

Course Information

Description	Provides knowledge and skills in the areas of metallurgy and weld testing. Teaches the different uses and testing procedures for steel, stainless steel, aluminum and various alloys. Emphasizes welds approved for testing by the American Welding Society.
Career Cluster	Manufacturing

Instructional Level Associate of Applied Science

Total Credits 2

CWG 155 Flux Cored Arc Welding

Course Standard

Course Information

Description Through classroom and/or shop/lab learning and assessment activities, students in this course will: explain Flux Cored Arc Welding process (FCAW); demonstrate the safe and correct set up of the FCAW workstation; correlate FCAW electrode classifications with base metals and joint criteria; demonstrate proper electrode selection and use based on metal types and thicknesses; perform surfacing welds with selected electrodes in the flat position; perform surfacing welds with selected electrodes in the horizontal position; produce basic FCAW welds on selected weld joints; and conduct visual inspection of FCAW welds.

Career Cluster Manufacturing

Instructional Level Associate of Applied Science

Total Credits 4

CWG 160 Welding Internship

Course Standard

Course Information

Description The internship represents an educational strategy linking the classroom with the acquisition of knowledge in the workplace. Through direct observation, reflection and evaluation, students gain an insight into the internship site's work, mission, and audience, how these relate to their academic study, as well as the organization's position in the broader industry or field. Students will produce a critical reflection on their internship experience demonstrating how they have addressed specific learning goals.

Career Cluster Manufacturing

Instructional Level Associate of Applied Science

Total Credits 4

CWG 242 SMAW D1.1 Qualification

Course Standard

Course Information

Description	Assists students in preparing to take the shielded metal arc welding (SMAW) qualification test. Students follow all safety procedures related to the various tools and equipment involved in this course. They understand the qualification and code system for structural qualification; identify, measure, cut and prepare the material required for this qualification; and learn the skills for structural welding. Students have time in class to practice these skills in preparation for the structural certification test(s). Completion of this course does not ensure qualification. A destructive bend test is performed during the last week of this course.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	4

CWG 243 GMAW D1.1 Qualification

Course Standard

Course Information

Description	Assists students in preparing to take the gas metal arc welding (GMAW) qualification test. Students follow all safety procedures related to the various tools and equipment involved in this course; understand the qualification and code system for structural qualification; identify, measure, cut and prepare materials required for this qualification; and learn the skills for structural welding. Students have time in class to practice these skills in preparation for the structural qualification test(s). Completion of this course does not ensure qualification. A destructive bend test is performed during the last week of this course.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	4

DIS 150 Directed Individual Studies

Course Standard

Course Information

Description	Provides the instructor and student an opportunity to develop special learning environments. Instruction is delivered through occupational work experience,
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practicums, advanced projects, industry sponsored workshops, seminars, or specialized and/or innovative learning arrangements. Topics include: application of occupational technical skills, adaptability to the work environment, and problem solving. Each course is documented with a written agreement between the instructor and the student detailing expected requirements. The course is offered with variable credit ranging from 1 to 4 credit hours.

Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	4

DMK 110 Introduction to Media Arts

Course Standard

Course Information

Description	Offers an introduction to media arts and the interconnectedness of audio, film, animation and gaming. Introduces fundamental concepts in analyzing and interpreting popular media delivery. The course will employ lectures, guest speakers, collaborative projects and experimental modes of learning. Content will also cover resources available on campus and in the community. Written assignments will encourage students to think about how various media and entertainment influences culture and their response to these influences. Attendance at outside events, lectures and festivals is required.
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Career Cluster	Marketing
Instructional Level	Associate of Applied Science
Total Credits	3

DMK 120 Basic Digital Editing

Course Standard

Course Information

Description	Introduction to skills, principles and ethics of using audio, images and video to tell stories via Internet-based media.
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Career Cluster	Marketing
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Instructional Level Associate of Applied Science

Total Credits 3

DMK 125 Community Building and Management

Course Standard

Course Information

Alternate Title Community Building and Mgmt".

Description Students will be equipped with the knowledge and skills needed to create and support an online community that drives awareness, interest, and conversion for brands.

Career Cluster Marketing

Instructional Level Associate of Applied Science

Total Credits 3

DMK 135 Social Media Marketing and Management

Course Standard

Course Information

Alternate Title Social Media Marketing & Mgmt

Description Students will be equipped with the relevant knowledge, perspective and practical skills required to develop marketing strategies that leverage the opportunities inherent in social media for achieving business and marketing goals.

Career Cluster Marketing

Instructional Level Associate of Applied Science

Total Credits 3

DMK 140 Introduction to Audio/Visual Production

Course Standard

Course Information

Alternate Title Intro to Audio/Visual Prod

Description This course will provide students with the skills associated with production and direction of video and audio programs. Hands-on use of standard audio and video

production equipment to learn the most current and effective techniques will be integral to the course.

Career Cluster	Marketing
Instructional Level	Associate of Applied Science
Total Credits	3

DMK 150 Search Engine Optimization & Marketing

Course Standard

Course Information

Alternate Title	Search Optimization & Market
Description	This course is designed to introduce the student to the core concepts of Search Engine Optimization (SEO) and Search Engine Marketing (SEM). Students will learn to ensure their site is digestible by Google and other users resulting in better search engine rankings.
Career Cluster	Marketing
Instructional Level	Associate of Applied Science
Total Credits	3

DMK 155 Photography Fundamentals

Course Standard

Course Information

Description	This photography course aims to provide students with a comprehensive understanding of photography's fundamental principles and techniques. Through practical hands-on experience, students will develop the skills necessary to create visually compelling and technically proficient photographs.
Career Cluster	Marketing
Instructional Level	Associate of Applied Science
Total Credits	2

DMK 160 Introduction to Analytics

Course Standard

Course Information

Description	This course is designed to introduce students to the core concepts of digital analytics. The course will explore the effectiveness of marketing campaigns and how to optimize results. This course will prepare students to take the Google Analytics Certification.
Career Cluster	Marketing
Instructional Level	Associate of Applied Science
Total Credits	3

DMK 163 Introduction to Digital Advertising

Course Standard

Course Information

Alternate Title	Intro to Digital Advertising
Description	Introduction to the skills, principles, and design of digital advertising that drives business value and engages with online audiences.
Career Cluster	Marketing
Instructional Level	Associate of Applied Science
Total Credits	3

DMK 170 Digital Marketing Capstone

Course Standard

Course Information

Description	In this project-based course, students will apply the skills and knowledge acquired throughout the Digital Marketing program to a real-world project. In partnership with a local non-profit organization, students will create a digital marketing strategy designed to meet the customer needs. Students will produce a critical reflection on their capstone experience demonstrating how they have addressed specific learning goals. A successful project will include a project presentation to representatives of the non – profit organization, faculty and fellow students.
Career Cluster	Marketing
Instructional Level	Associate of Applied Science
Total Credits	4

DMK 175 Digital Marketing Internship

Course Standard

Course Information

Description	The internship represents an educational strategy linking the classroom with the acquisition of knowledge in the workplace. Through direct observation, reflection and evaluation, students gain an insight into the internship site's work, mission, and audience, how these relate to their academic study, as well as the organization's position in the broader industry or field. Students will produce a critical reflection on their internship experience demonstrating how they have addressed specific learning goals.
Career Cluster	Marketing
Instructional Level	Associate of Applied Science
Total Credits	4

ECO 105 Principles of Macroeconomics

Course Standard

Course Information

Description	This course explores the fundamental aspects of the United States economy including growth, fiscal and monetary policies, unemployment, inflation, national debt, money and the Federal Reserve System. National and international policy topics are discussed.
Instructional Level	Associate of Applied Science
Total Credits	3

ECO 110 Principles of Microeconomics

Course Standard

Course Information

Description	Attention will be given to the methods of producing the goods and services that our economy provides. The following areas are explored: supply, demand, pricing, scarcity, business firms and business anti-trust and public interest, incomes, wages and salaries, income distribution, taxes, and tax reform.
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Instructional Level	Associate of Applied Science
Total Credits	3

EDU 120 Introduction to Teaching

Course Standard

Course Information

Description	This is a preparation course introducing students to the field of teaching. Topics include current learning standards, lesson plan components, the realities of teaching as a career, certification requirements, professional expectations, and an introduction to teaching strategies. This course provides students with the opportunity to explore the field of teaching, reflect on their interest in education, create and present an instructional lesson, and develop connections with other future educators.
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Career Cluster	Education and Training
Instructional Level	Associate of Applied Science
Total Credits	3

EDU 140 Children's Literature

Course Standard

Course Information

Description	This course introduces students to the literary and visual styles in Children's Literature. Students will understand the role of literature in instruction including meeting state standards and reading development.
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Career Cluster	Education and Training
Instructional Level	Associate of Applied Science
Total Credits	3

EDU 160 Educational Technology

Course Standard

Course Information

Description	This course will introduce students to a variety of technology used in educational settings to enhance instruction. Students will learn how to integrate technology and assist students and parents with technology. The importance of cybersecurity and online safety will be discussed.
Career Cluster	Education and Training
Instructional Level	Associate of Applied Science
Total Credits	3

EDU 180 Educating Exceptional Students

Course Standard

Course Information

Description	This course introduces students to the strengths and needs of learners with exceptional needs, including those with physical and cognitive disabilities and those who exhibit gifts and talents. Students will explore the effects of cultural differences, human development, and education policy.
Career Cluster	Education and Training
Instructional Level	Associate of Applied Science
Total Credits	3

EDU 200 Classroom Management

Course Standard

Course Information

Description	This course will introduce students to best practices in classroom management and assessment. Topics include time management, organizing materials and classroom space, and managing student behavior.
Career Cluster	Education and Training
Instructional Level	Associate of Applied Science
Total Credits	3

EDU 220 Introduction to Teaching – Field Experience

Course Standard

Course Information

Alternate Title	Intro to Teaching - Field Exp
Description	This course provides an opportunity for hands-on experiences in a PreK-12 classroom. Students are required to complete 25 hours in the field during the semester. Students will reflect upon topics and issues such as diversity, effective teaching strategies, and educational structures as they are experienced in the PreK-12 classroom.
Career Cluster	Education and Training
Total Credits	1

EDU 235 Foundations of Writing

Course Standard

Course Information

Description	This course introduces students to the research-based elements of language development that allow a teacher to prevent young children from future reading difficulties. Students will be equipped with activities to teach and reinforce phonological awareness, letter recognition, sound/symbol correspondence, reading of phonetically regular words, spelling development, handwriting, oral language development, and listening comprehension.
Career Cluster	Education and Training
Instructional Level	Associate of Applied Science
Total Credits	3

EDU 245 Foundations In Early Literacy

Course Standard

Course Information

Description	This is a preparation course introducing students to research related to dyslexia and the importance of phonological awareness. Phonological awareness is a necessary foundational skill for reading, writing, and spelling. Research tells us phonological awareness skills can be taught through direct instruction and practice. Discover the principles of planning strategic lessons to address these critical skills. Students will be taught through lecture, modeling, and hands on practice.
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Career Cluster	Education and Training
Instructional Level	Associate of Applied Science
Total Credits	3

EMS 103 EMT 1

Course Standard

Course Information

Description	The EMT 1 course provides students with the academic and professional knowledge and skills to provide emergency medical care and transportation for critical and emergent patients who access the emergency medical systems. The student will learn about an EMS system, medical and legal considerations, and documentation. The students will learn medical terminology, anatomy, and physiology as it relates to a medical emergency patient. Upon completion of this course, students will possess the knowledge and skills necessary to provide patient care and transportation of medical emergency patients. The student will be prepared to function as part of a comprehensive EMS response team, under medical oversight. Students in the EMT course will apply basic medical interventions with equipment typically found on an ambulance in order to act as a link from the scene of the emergency to the emergency health care facility.
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Career Cluster	Health Science
Instructional Level	Technical Certificate
Total Credits	6

EMS 104 EMT 2

Course Standard

Course Information

Description	The EMT 2 course provides students with the academic and professional knowledge and skills to provide emergency medical care and transportation for critical and emergent patients who access the emergency medical systems. Upon completion of this course, students will possess the knowledge and skills necessary to provide patient care and transportation for trauma and special populations. The student will be prepared to function as part of a comprehensive EMS response team, under medical oversight. Students in the EMT course will apply basic medical interventions with trauma equipment typically found on an ambulance in order to act as a link from the scene of the emergency to the emergency health care facility. EMT 2 students will learn about EMS system operations including HazMat and Mass Casualty Incidents. EMT 1 and EMT 2
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prepare students for EMT National Registry Exam and covers all EMT Education Standards for EMT – level Instruction.

Career Cluster Health Science
Total Credits 6

EMS 105 Emergency Medical Technician

Course Standard

Course Information

Alternate Title Emergency Medical Tech

Description The EMT course provides students with the academic and professional knowledge and skills to provide emergency medical care and transportation for critical and emergent patients who access the emergency medical systems. Upon completion of this course, students will possess the knowledge and skills necessary to provide patient care and transportation. The student will be prepared to function as part of a comprehensive EMS response team, under medical oversight. Students in the EMT course will apply basic medical interventions with equipment typically found on an ambulance in order to act as a link from the scene of the emergency to the emergency health care facility. This course prepares students for EMT National Registry Exam and covers all EMT Education Standards for EMT – level Instruction.

Career Cluster Health Science
Instructional Level Technical Certificate
Total Credits 12

EMS 115 Tactical Medicine

Course Standard

Course Information

Description This course will cover tactical emergency medicine—the practice of emergency medicine in the field during disasters, police or military conflicts, mass causality events, and community incidents. Key topics covered include hostage survival, insertion and extraction techniques, continuum of force, medical support, planning and triage, medical evaluation in the incident zone, care in custody, medical control of incident site, decontamination, community communication, and more.

Career Cluster Health Science

Instructional Level Associate of Applied Science

Total Credits 3

ENG 010 College Reading Skills

Course Standard

Course Information

Description This course is designed to equip students for success in the writing required during academic endeavors. Review of grammar is individualized and self-paced, using a computerized software program. Writing assignments will include a number of paragraphs and major essay. This course does not count toward the A.A., A.S., A.A.S., or A.G. S. degree.

Total Credits 3

ENG 020 Basic Writing Skills

Course Standard

Course Information

Description Enables students to construct complete simple, compound and complex sentences by applying grammar concepts learned. Enables students to write a focused, organized, supported paragraph without fragment, run-on or comma splice errors. This course does not count toward the Certificate of Completion (COC), Technical Certificate (TC), or Associate of Applied Science degree (AAS).

Total Credits 3

ENG 030 English

Course Standard

Course Information

Description Designed to equip students for success in the writing required during academic endeavors. Review of grammar is individualized and self-paced, using a computerized software program. Writing assignments will include a number of paragraphs and major essay. To demonstrate readiness for and be allowed to enroll in ENG 101 Composition I, students must pass this course with a grade of C or above and pass the final exam. This course does not count toward AS, AA, AGS or AAS degrees.

Total Credits 3

ENG 035 PACER English

Course Standard

Course Information

Description This course is designed to equip students for success in the writing, reading, and effective student skills required during academic endeavors at the college level. Review of grammar and reading skills is individualized and self-paced, using a computerized software program in addition to instructor-led lessons. Writing assignments will include a number of paragraphs and reading will include practice with college-level texts.

Total Credits 5

ENG 040 Bridge to College English

Course Standard

Course Information

Description Bridge to College English is for students testing in the 46-68 range on the Accuplacer reading and/or sentence skills tests. Upon successful completion of this intensive writing program, students will enroll in ENG 101 Composition I. This two-week course offers a refresher on essential reading and writing skills that students are expected to have mastered before entering ENG 101 Composition I.

Total Credits 1

ENG 100 Composition I Lab

Course Standard

Course Information

Description This lab is designed for students to work in an adaptive setting based on their skills and needs in reading and writing skills. Students will take this lab in conjunction with English 101 Composition I.

Total Credits 1

ENG 101 Composition I

Course Standard

Course Information

Alternate Title	Composition I
Description	This course is designed to improve the reading and writing skills of students. The emphasis is on fundamental principles of written English in structurally correct sentences, paragraphs and expository themes. Critical analysis of essays will be used to aid in developing the student's thinking, support of thesis and style. Students are introduced to the basic components of research by writing a documented essay in Modern Language Association (MLA) style.
Instructional Level	Associate of Applied Science
Total Credits	3

ENG 110 Introduction to Literature

Course Standard

Course Information

Description	This course is an introduction to the short forms of literature, designed to develop understanding and appreciation of good literature. Study includes short stories, dramas and poems.
Instructional Level	Associate of Applied Science
Total Credits	3

ENG 120 Composition II

Course Standard

Course Information

Description	This course is designed to immerse students in the study and practice of persuasive and argumentative, report, and research writing emphasizing analysis and research and reading, interpreting, and evaluation of selected texts.
Instructional Level	Associate of Applied Science
Total Credits	3

ENG 205 Introduction to Creative Writing

Course Standard

Course Information

Alternate Title	Intro to Creative Writing
Description	In this course students will combine the writing and revising of original works with the critical readings of published works from poetry, fiction, and play/film writing. Students will learn the basic elements of writing in each selected genre and experiment with producing their own works in those genres. During class students will share their work and provide feedback to classmates. Additionally, class time will include open discussion about the craft of writing and the assigned readings.
Instructional Level	Associate of Applied Science
Total Credits	3

ENG 211 Introduction to Writing for Digital Media

Course Standard

Course Information

Alternate Title	Intro Writing Digital Media
Description	In this course, students will explore the writing genres associated with digital media and learn the essential elements of writing for a digital audience. Students will actively participate in the writing process while creating original work in multiple digital media environments. Students are expected to share original works and provide feedback to classmates. Additionally, class time will include the open discussion of writing for the digital audience and assigned readings.
Total Credits	3

ENT 110 Introduction to Entrepreneurship

Course Standard

Course Information

Alternate Title	Intro to Entrepreneurship
Description	The purpose of this course is to familiarize students with the world of small business. Students will be introduced to the concepts needed to seek out business opportunities as well as the tools needed to evaluate successful ventures. Considerable attention will be given to the concepts of planning, financing and marketing new businesses.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

ENT 115 Entrepreneurship II

Course Standard

Course Information

Description The marketplace has changed dramatically over the last 20 years. To compete and grow, small businesses must do more than just give lip service to putting the customer at the center of the business. Students learn the different paths to business ownership, how to effectively market new products, management strategies for the 21st century and how to plan financially for a business.

Career Cluster Business Management and Administration

Instructional Level Associate of Applied Science

Total Credits 3

FOL 101 Spanish I

Course Standard

Course Information

Description This course is designed to help the student increase their knowledge of Spanish vocabulary, grammar, elementary syntax and composition, basic reading, and pronunciation with practice in everyday conversation.

Instructional Level Associate of Applied Science

Total Credits 5

FOL 110 Spanish II

Course Standard

Course Information

Description This course is designed to help the student increase their knowledge of Spanish vocabulary, grammar, elementary and intermediate syntax and composition, basic reading, and pronunciation with practice in everyday conversation.

Instructional Level Associate of Applied Science

FOL 120 Essential Spanish for the Workplace

Course Standard

Course Information

Alternate Title	Spanish for the Workplace
Description	This course provides immediate access to functional Spanish language skills and cultural competence for non-Spanish speaking students enrolled in a career-specific degree, diploma, or certificate program. It is a practical step toward communication in settings where comprehension is crucial. Cultural awareness will be addressed, as well. The vocabulary presented will be tailored to the specific needs of the target occupation. No prior knowledge of Spanish is necessary.
Career Cluster	Architecture and Construction
Instructional Level	Associate of Applied Science
Total Credits	4

FSI 101 King Air Maintenance Practical

Course Standard

Course Information

Description	This course is designed to provide Maintenance Technicians hands on training with the King Air 90 Series aircraft as defined by the applicable Practical Task Assessment Log (PTAL).
Career Cluster	Manufacturing
Instructional Level	Continuing Education
Total Credits	3

GEO 101 Principles of Geography

Course Standard

Course Information

Description	This course is designed to provide the student with an introduction of how geography influences social, cultural, economic, political, and environmental systems. Students will gain an understanding of how modern technology and global human ecology shape our knowledge of land, environment, and culture.
Instructional Level	Associate of Applied Science
Total Credits	3

GRA 101 Certified Nurse Aide

Course Standard

Course Information

Description	Prepares students to be caregivers in nursing homes while working under the supervision of licensed nurses. Includes classroom instruction, laboratory and clinical experience. Program meets Kansas State Department of Health and Environment guidelines. Graduates may take the state examination to become a certified nurse aide.
Career Cluster	Health Science
Instructional Level	Certificate of Completion
Total Credits	5

GRA 119 Medication Aide

Course Standard

Course Information

Description	Focuses on the knowledge and skills needed for safe medication administration in long-term care facilities. Graduates are eligible to take the Kansas certification examination to become certified medication aides.
Career Cluster	Health Science
Instructional Level	Certificate of Completion
Total Credits	5

HEM 105 Sanitation and Safety

Course Standard

Course Information

Description	In this course, students will study the basic principles of bacteriology, foodborne illness, sanitation, workplace safety, personal hygiene, food security, health regulations, and inspections. The course emphasizes the importance of sanitary equipment and facilities, and pest control. Students must complete the National Restaurant Association Educational Foundation certification exam to pass this course.
Career Cluster	Hospitality and Tourism
Instructional Level	Associate of Applied Science
Total Credits	1

HEM 110 Hospitality Math

Course Standard

Course Information

Description	Reviews the fundamentals of mathematics, including calculating percent, ratios, decimals, fractions, weights and measures, and introductory algebra concepts. Emphasizes the application of mathematical fundamentals to a variety of culinary and hospitality uses. Provides instruction in equivalencies, recipe costing and conversion, calculating food and labor cost percentages, baker's percentages, yield conversions, and selling prices.
Career Cluster	Hospitality and Tourism
Instructional Level	Associate of Applied Science
Total Credits	3

HEM 115 Introduction to the Hospitality Industry

Course Standard

Course Information

Alternate Title	Intro to Hospitality Industry
Description	In this course, students will gain knowledge and develop an appreciation of the multifaceted elements of hospitality management by exploring all aspects of the hospitality, tourism, and event management industries including hotels and lodging; food-service and restaurants; travel and tourism; transportation; meetings,

conventions and expositions; leisure and recreation; and, special events. While the focus is on basic hospitality and management principles, this course also reflects the impact of current social, economic, technological, and political factors on operations in the field. Further, students are offered information on the array of careers available in the various segments of the hospitality industry.

Career Cluster	Hospitality and Tourism
Instructional Level	Associate of Applied Science
Total Credits	3

HEM 120 Hospitality Service Techniques

Course Standard

Course Information

Description	Defines and describes points of service in restaurant and banquet functions. Discusses sales techniques, cash handling standards, methods of customer satisfaction, and other topics related to the smooth operation of any restaurant or catered event. The course includes hands-on experience at breakfast, lunch, and dinner in a full-service restaurant. Emphasizes proper service procedures, cost control, and efficient work methods.
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Career Cluster	Hospitality and Tourism
Instructional Level	Associate of Applied Science
Total Credits	3

HEM 125 Food & Beverage Management Fundamentals

Course Standard

Course Information

Alternate Title	Food & Beverage Mgmt Fund
Description	Principal analysis of directing a food and beverage operation, with the examination of food and beverage in restaurant operations. Students will engage in theory and practices of service fundamentals pertaining to food and beverage management.

Career Cluster	Hospitality and Tourism
Instructional Level	Associate of Applied Science

HEM 130 Introduction to Lodging Operations

Course Standard

Course Information

Alternate Title Intro to Lodging Operations

Description The course provides students with an overview of the lodging industry and how its functions are organized and operated. Introduces each of the seven traditional disciplines: general management, hotel sales, financial control, room operations, food, and beverage operations, human resources, and physical plant maintenance. Emphasizes business ethics and effective communication.

Career Cluster Hospitality and Tourism

Instructional Level Associate of Applied Science

Total Credits 2

HEM 135 Hospitality Human Resource Management

Course Standard

Course Information

Alternate Title Hospitality Human Resource Mgt

Description Introduces the functions of human resource management including, planning, communicating, recruiting, hiring, training, coaching, counseling, discipline, performance evaluation, termination, and labor relations. Emphasizes the legal issues related to managerial decisions, motivation and managing diversity.

Career Cluster Hospitality and Tourism

Instructional Level Associate of Applied Science

Total Credits 3

HEM 140 Hospitality Financial Management

Course Standard

Course Information

Alternate Title Hospitality Financial Mgmt

Description	Provides an understanding of basic accounting concepts and procedures relevant to hotel and food service operations. Instructs students in recording transactions, understanding financial statements, managing inventory, payroll problems, occupancy issues and other special topics.
Career Cluster	Hospitality and Tourism
Instructional Level	Associate of Applied Science
Total Credits	3

HEM 145 Fundamentals of Excellent Customer Service

Course Standard

Course Information

Alternate Title	Excellent Customer Service
Description	This course is designed to prepare students for the professional world of customer service. Students in this course receive a solid knowledge base in the areas of exemplary customer service practices, customer service in the internet age and, business communications.
Career Cluster	Hospitality and Tourism
Instructional Level	Associate of Applied Science
Total Credits	3

HEM 150 Food and Beverage Operations

Course Standard

Course Information

Description	Focuses on the management of food and beverage operations in hospitality establishments. Includes restaurant, banquets, room service, beverage operations, menu planning, and stewarding. This course prepares students to take the ServSafe Food Handlers Certification.
Career Cluster	Hospitality and Tourism
Instructional Level	Associate of Applied Science
Total Credits	3

HEM 155 Front Office Management

Course Standard

Course Information

Description	This course introduces students to the Lodging Operations Front Office. Topics include reservations, front desk, guest services and human resource deployment issues specific to front office operations management. This course familiarizes students with the principles of front desk operational procedures; examines current trends in guest services; discusses online distribution of room inventory; and introduces students to the principles of revenue management strategies. Students work with a Property Management Software to become familiar with computerized reservations, arrival and charge posting systems.
Career Cluster	Hospitality and Tourism
Instructional Level	Associate of Applied Science
Total Credits	3

HEM 160 Housekeeping and Environmental Services

Course Standard

Course Information

Alternate Title	Housekeeping and Environmental
Description	Examines the role of supervisory functions in the housekeeping department. Provides a thorough overview of maintaining a quality staff, planning and organizing, technical details of cleaning a room, managing the laundry, and control of supplies and equipment.
Career Cluster	Hospitality and Tourism
Instructional Level	Associate of Applied Science
Total Credits	3

HEM 165 Revenue Management

Course Standard

Course Information

Description	Revenue Management is critical to the hospitality industry due to the perishable nature of service-based products. The fundamental principles and concepts of revenue management covered in this course are capacity management, duration control, demand, and revenue forecasting, discounting, overbooking practices, displacement analysis, channel management, and pricing execution.
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Career Cluster	Hospitality and Tourism
Instructional Level	Associate of Applied Science
Total Credits	3

HEM 170 Sales

Course Standard

Course Information

Description	The course introduces the principles, concepts, and systems utilized in the marketing and sales areas within the hospitality industry. The course provides an in-depth analysis of marketing strategies and theories with a holistic appreciation of the scope and importance of the marketing and sales functions in the hospitality business.
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Career Cluster	Hospitality and Tourism
Instructional Level	Associate of Applied Science
Total Credits	3

HEM 175 Event Catering Strategies

Course Standard

Course Information

Description	This course serves as an introduction to planning catering events, responsibilities of the caterer and the event planner as well as techniques for identifying equipment and space needs to facilitate the event.
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Career Cluster	Hospitality and Tourism
Instructional Level	Associate of Applied Science
Total Credits	3

HEM 180 Event Industry Fundamentals

Course Standard

Course Information

Description	Overview of the event management industries. This course looks at the most up to date techniques and procedures required for producing successful and sustainable event.
Career Cluster	Hospitality and Tourism
Instructional Level	Associate of Applied Science
Total Credits	3

HEM 185 Event and Meeting Contracting

Course Standard

Course Information

Description	An introduction to the Meeting & Events industry where by contracts are a necessary part of doing business. This course will explore four key components which are the offer, consideration, acceptance, as well as the Banquet Event Order (BEO) or sometimes referred to as the Catering Event Order (CEO).
Total Credits	3

HEM 190 Event Support Systems

Course Standard

Course Information

Description	In this course, students will examine event objectives and potential sponsorship opportunities for non-profit events as they relate to the event budget. The course will provide students with an opportunity to apply current industry software to manage attendee registration, volunteer management, audiovisual requirements, and event space management. In addition, students will produce reports of the key service providers related to attendee accommodations, transportation, ancillary activities, and post-event evaluations.
Career Cluster	Hospitality and Tourism
Instructional Level	Associate of Applied Science
Total Credits	3

HEM 195 Special Events and Meetings

Course Standard

Course Information

Description	In this course, students will gain hands-on experience in event planning. Students will also learn to anticipate and execute the needs of an organization or community planning special events.
Career Cluster	Hospitality and Tourism
Instructional Level	Associate of Applied Science
Total Credits	3

HEM 200 Event Project Planning

Course Standard

Course Information

Description	This course provides an overview of project management as identification and explanation for the building blocks of an event from start to finish. The project triangle is introduced and demonstrates the construction of an event. Students will define the scope, create well-defined requirements, and develop work breakdown structures for an event. Task and precedence diagramming will be taught to develop the event schedule and master task list. Students will also learn to construct an event project communications plan for the purpose of communicating with internal and external stakeholders. The final portion of the course is designed to teach students to close out the function and visualize the lessons learned from the production of the event.
Career Cluster	Hospitality and Tourism
Instructional Level	Associate of Applied Science
Total Credits	3

HEM 205 Alcohol Beverage Law

Course Standard

Course Information

Description	This course will prepare students for bartending through the emphasis on ABC Laws, alcohol responsibilities, alcohol awareness, and bar setup. This course will prepare students to complete the ServSafe Alcohol certification.
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Career Cluster	Hospitality and Tourism
Instructional Level	Associate of Applied Science
Total Credits	3

HEM 210 Beer and Spirits

Course Standard

Course Information

Description	Introduction to history and methods of production for a variety of beer, spirits, and other beverages. Beverage tasting and sensory analysis; product knowledge; service techniques; sales; and alcohol service relate to the hospitality industry. Students must be 21 years old to participate in this course.
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Career Cluster	Hospitality and Tourism
Instructional Level	Associate of Applied Science
Total Credits	3

HEM 215 Food and Alcohol

Course Standard

Course Information

Description	In this course, students will explore the complexity of pairing food and different types of alcohol in today's culinary world. This course will explore the significance of food and drink by examining the fundamental concepts of history, tradition, and culture. Whether planning a large catered event, developing food and wine menus for restaurants or special events, understanding how to pair food with alcohol is an invaluable skill for hospitality professionals.
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Career Cluster	Hospitality and Tourism
Instructional Level	Associate of Applied Science
Total Credits	3

HEM 220 Beverage Promotion

Course Standard

Course Information

Description	This course is designed to provide the practical knowledge needed to manage a restaurant bar or beverage operation.
Career Cluster	Hospitality and Tourism
Instructional Level	Associate of Applied Science
Total Credits	1

HEM 225 Wine Fundamentals

Course Standard

Course Information

Description	Through tasting, the student will develop an appreciation of different types of wine, including varietal characteristics and other components, in order to understand the role of wine in professional food and beverage operations. Students must be 21 years of age.
Career Cluster	Hospitality and Tourism
Instructional Level	Associate of Applied Science
Total Credits	3

HEM 230 Mixology

Course Standard

Course Information

Description	Create a wide variety of classic and everyday mixed drinks in a standard bar setting. Learn about bar glassware and equipment identification, pouring techniques, common cocktail mixing methods, history of distilled spirits, origin and characteristics of various distilled spirit brands, distillation process, bartenders job description, and responsibilities, cost control, beverage pricing and responsible alcohol service. Students must be 21 years of age to enroll in this course.
Career Cluster	Hospitality and Tourism
Instructional Level	Associate of Applied Science
Total Credits	3

HEM 235 Hospitality Management Internship

Course Standard

Course Information

Alternate Title	Hospitality Management Intern
Description	This is a work-based learning course which enables students to develop practical skills, relate theory to practice, and to gain a sound base of industrial experience by working – on a paid or voluntary basis – from a range of organizations within the hospitality industry. In addition, this course seeks to develop ‘employability skills’ to assist students in progressing towards a career in hospitality.
Career Cluster	Hospitality and Tourism
Instructional Level	Associate of Applied Science
Total Credits	4

HHA 100 Home Health Aide

Course Standard

Course Information

Description	Prepares the certified nurse aide (CNA) to care for clients in community and home settings. Graduates may take the Kansas certification examination to become a home health aide (HHA).
Career Cluster	Health Science
Instructional Level	Certificate of Completion
Total Credits	2

HIS 110 United States History to 1877

Course Standard

Course Information

Description	This course traces development of the United States, 1492 to 1876, including English colonization, the American Revolution, formation of the Union, colonization of the West, development of sectionalism, the Civil War, and restoration of home rule in the South. Important political, cultural, economic, and religious/philosophical accomplishments of this period will be examined.
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Instructional Level	Associate of Applied Science
Total Credits	3

HIS 120 United States History since 1865

Course Standard

Course Information

Alternate Title	United States since 1865
Description	This course is designed to provide the student with an introduction to United States history from the end of Reconstruction to the present. This course will survey the important political, cultural, economic, and religious/philosophical accomplishments during this period.
Career Cluster	Law, Public Safety, Corrections and Security
Instructional Level	Associate of Applied Science
Total Credits	3

HIS 130 World History I

Course Standard

Course Information

Description	This course provides an introduction to the birth and development of World History to the mid-16th century. Students will survey the important political, cultural, economic, and religious/ philosophical accomplishments of this period.
Instructional Level	Associate of Applied Science
Total Credits	3

HIS 140 Humanities Prospectus

Course Standard

Course Information

Description	This course combines humanities topics including art, religion, world history and U.S. history with the goal that students gain a greater understanding of how the humanities topics interact and impact the world around them. The course will survey world and United States history, broadly looking at politics, culture,
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economics, art and religious/philosophical accomplishments that have shaped our world today.

Art – gain an appreciation for art, studying the concepts and artist’s work so that students improve one’s judgment and ability to understand art critically.

Religion – Introduction to Buddhism, Christianity, Judaism, and Islam. Students will examine the basic components of each faith, as well as the historical and cultural impact of each religion

World and U.S. History – surveying world and U.S. history in the areas of politics, culture, economics, and religious/philosophical accomplishments, covering the period from the Renaissance to the 20th century.

Instructional Level Associate of Applied Science

Total Credits 3

Humanities Elective

Course Standard

Course Information

Description This course is the placeholder for the Humanities elective. Students may enroll in the following courses to fulfill the Humanities elective: ART 100 Art Appreciation, ENG 110 Introduction to Literature, ENG 205 Introduction to Creative Writing , HIS 110 United States History to 1877, HIS 120 United States History since 1865, HIS 130 World History I, MGT 111 Business Ethics, PHL 110 Ethics, PHL 115 Logic, REL 101 New Testament, THR 100 Theater Appreciation

Instructional Level Associate of Applied Science

Total Credits 3

IND 105 Industrial Automation Test Equipment

Course Standard

Course Information

Alternate Title Industrial Automation Test Equ

Description This course is designed to provide students with the necessary skills to operate the test equipment used in the Industrial Automation program. In a hands on environment students will learn the function and operating processes of each piece of equipment. Topics will include digital multi meters, oscilloscopes, and function generators.

Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

IND 106 Direct & Alternating Current

Course Standard

Course Information

Description	This course introduces direct current (DC) concepts and applications and the theory and application of varying sense wave voltages and current. Topics include: electrical principles and laws; batteries; DC test equipment; series, parallel and simple combination circuits; magnetism, AC wave generation, AC test equipment, inductance, capacitance, and basic transformers, and laboratory procedures and safety practices.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	4

IND 109 Basic Industrial Programmable Logic Controls

Course Standard

Course Information

Alternate Title	Basic Ind Prog Logic Cntrls
Description	This course introduces operational theory, systems terminology, PLC installations, and programming procedures for programmable logic controls. Emphasis is placed on PLC programming, connections, installations, and start-up procedures. Topics include: PLC hardware and software, PLC functions and terminology, PLC installation and set up, PLC programming basics, relay logic instructions, timers and counters, connecting field devices to I/O cards, and PLC safety procedures.

Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	4

IND 111 Foundations of Manufacturing

Course Standard

Course Information

Description	This course is designed to teach students the non-technical side of manufacturing that helps them to know where they fit into the value chain and how their performance affects the company, and to understand how and why decisions are made. Soft skills, proper selection and use of maintenance tools, safety, differences in maintenance practices will be introduced.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

IND 116 Advanced Motor Controls

Course Standard

Course Information

Description	This course provides instruction in two-wire motor control circuits using relays, contractors, and motor starts with application sending devices. Topics include: wiring limit switches, wiring pressure switches, wiring float switches, wiring temperature switches, wiring proximity switches, wiring photo switches, sequencing circuits, reduced voltage starting, motor control centers, and troubleshooting.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

IND 117 Variable Speed Motor Control

Course Standard

Course Information

Description	This course provides instruction in the fundamentals of variable speed drives, industrial motors, and other applications of variable speed drives. Topics include: fundamentals of variable speed control, AC frequency drives, DC variable speed drives, installation procedures, and ranges.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

IND 121 Mechanical Systems Reliability

Course Standard

Course Information

Description	This course provides understanding of mechanical energy transmission concepts along with lab experience to operate, install, analyze performance, and design mechanical drive systems using right angle gears, bearings and couplings. Students learn how to setup and operate laser shaft alignment and apply vibration analysis to various power transmission systems.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

IND 123 Industrial Fluid Power

Course Standard

Course Information

Description	This course provides instruction in fundamental concepts and theories for safely operating hydraulic components and pneumatic systems and industrial pumps and piping systems. Topics include: hydraulic theory, suction side of pumps, actuators, valves, pumps/motors, accumulators, symbols and circuitry, fluids, filters, pneumatic theory, compressors, pneumatic valves, air motors and cylinders, pump identification; pump operation; pump installation, maintenance, and troubleshooting; piping systems; and installation of piping systems.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	4

IND 130 Mechanical Systems

Course Standard

Course Information

Description	This course provides instruction in basic physics concepts applicable to mechanics of industrial production equipment, teaches basic industrial application of mechanical principles with emphasis on power transmission and specific mechanical components. Students will also design basic mechanical transmission systems using chains, v-belts and gears.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

IND 131 Industrial Programmable Logic Controls (PLC)

Course Standard

Course Information

Alternate Title	Industrial Prog Logic Controls
Description	This course examines types, installation and troubleshooting of programmable logic controllers (PLC). Hardware and programming aspects, as well as ladder logic symbols and operations necessary to develop a PLC program are covered in this course.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

IND 132 Industrial Process Control

Course Standard

Course Information

Description	This course provides understanding of different types of process control systems like temperature, flow and level control. The course includes process control principles, thermocouples, RTD's, temperature measurement devices, ON/Off temperature controlled, programmable process heat controllers, transmitters, process loop test and operate system found in industrial application.
Career Cluster	Manufacturing

Instructional Level	Associate of Applied Science
Total Credits	3

IND 139 CNC Operation for Maintenance Applications

Course Standard

Course Information

Alternate Title	CNC Operation for Maintenance
Description	This course will train the student in the basic manual operation of CNC Machine tools. It will cover the required programming codes to move the machine using Manual Data Input (MDI), as well as hand and jog functions. It is designed to teach the student how to manipulate the machine to perform maintenance, troubleshooting, and repair operations.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

IND 145 Advanced Technologies in Predictive Maintenance

Course Standard

Course Information

Alternate Title	Adv Tech Predictive Maint
Description	Addresses regular routine predictive, testing, checking for wear and tear and eventually replacing components to avoid breakdown. Introduces students to the various types and styles of predictive maintenance components, principles, and practices used in industrial applications.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

IND 150 Manufacturing Equipment and Tools

Course Standard

Course Information

Description	In this course students will learn how to use common manufacturing tools and equipment properly and safely. Students will learn the proper selection and applications of maintenance tools and demonstrate safe practices in a maintenance environment.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	2

INF 105 CompTIA A+ Core 1

Course Standard

Course Information

Description	This course will prepare the student for entry level work in the Information Technology career field. Successful students will have the skills necessary for installing, maintaining, configuring, and upgrading PC (Personal Computer) workstations. Students will utilize troubleshooting techniques and tools to effectively and efficiently resolve PC, OS, and network connectivity issues and implement security practices. Job titles in some organizations that would describe the role of this individual may be: Enterprise technician, IT administrator, field service technician, PC or support technician etc.
Career Cluster	Information Technology
Instructional Level	Associate of Applied Science
Total Credits	3

INF 110 CompTIA A+ Core 2

Course Standard

Course Information

Description	This course will prepare the student for entry level work in the Information Technology career field. Successful students will have the knowledge required to understand the fundamentals of computer technology, networking and security, and will have the skills required to identify hardware, peripheral, networking, and security components. Upon completion of the course students will understand the basic functionality of the operating system and basic troubleshooting methodology, practice proper safety procedures, and will effectively interact with customers and peers.
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Career Cluster	Information Technology
Instructional Level	Associate of Applied Science
Total Credits	3

INF 112 Network Essentials

Course Standard

Course Information

Description	This course teaches the fundamentals of networking. It covers how devices communicate on a network, network addressing and network services, how to build a home network and configure basic security, the basics of configuring Cisco devices, and testing and troubleshooting network problems.
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Career Cluster	Information Technology
Instructional Level	Associate of Applied Science
Total Credits	3

INF 113 Introduction to Programming

Course Standard

Course Information

Description	Programmers are in higher demand today than ever before. Get the essential skills and tools to become a successful software engineer and learn the fundamental concepts and practices that are critical to the task of coding—no matter what language you choose. In this course, students will develop the knowledge to begin programming in any language, connect programming theory to practice in real-life scenarios, and apply best practices from experts in the field.
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Career Cluster	Information Technology
Instructional Level	Associate of Applied Science
Total Credits	3

INF 115 Network+ Part I

Course Standard

Course Information

Description	This course prepares a student for entry level installing, maintaining, troubleshooting, and repairing a computer network.
Career Cluster	Information Technology
Instructional Level	Certificate of Completion
Total Credits	3

INF 116 Network+ Part II

Course Standard

Course Information

Description	This is a continuation of INF 115 Networking Part 1. This class prepares students to work with network operating systems and network design issues.
Career Cluster	Information Technology
Instructional Level	Certificate of Completion
Total Credits	3

INF 120 Security+

Course Standard

Course Information

Description	This course prepares students for the CompTIA Security+ Certification exam. CompTIA Security+ is a global certification that validates the baseline skills needed to perform core security functions and pursue an IT security career. The Security+ course focuses on the latest trends and techniques in risk management, risk mitigation, threat management, and intrusion detection. The Security+ course provides students with the knowledge and skills required to assess an enterprise environment's security posture, recommend and implement appropriate security solutions, and monitor and secure hybrid environments, including cloud, mobile, and IoT. In this course, students will learn to operate with an awareness of applicable laws and policies, including principles of governance, risk management, and compliance, while identifying, analyzing, and responding to security events and incidents. This course prepares the student for a System Administrator, Network Administrator, Security Administrator, Junior IT Auditor/Penetration Tester, Security Specialist, Security Consultant or Security Engineer.
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Career Cluster	Information Technology
Instructional Level	Certificate of Completion
Total Credits	3

INF 134 Server

Course Standard

Course Information

Description	This course prepares students for the CompTIA Server+ Certification exam. This course is vendor neutral and works with Microsoft Windows Server Operating Systems, Linux Open Source Operating Systems, and VMware virtualization products. This course covers the basics from how the hardware and operating systems works to more advanced concepts of RAID, virtualization, security, network storage, building domain controllers for an enterprise environment, managing users, groups, and permissions and troubleshooting. The course prepares students to work in a wide variety of jobs such as System Administrators, Webserver administrators, virtualization, and cloud administrator roles.
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Career Cluster	Information Technology
Instructional Level	Associate of Applied Science
Total Credits	3

INF 136 Introduction to PowerShell

Course Standard

Course Information

Description	Introduction to PowerShell provides an overview and application of the next generation command shell developed by Microsoft. Students learn to interact with Windows PowerShell from the command line. This course prepares students to demonstrate an understanding and application of the fundamentals of how to develop and execute PowerShell scripts, and how to become an effective programmer in the PowerShell environment.
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Career Cluster	Information Technology
Instructional Level	Associate of Applied Science
Total Credits	3

INF 139 Cybersecurity Essentials

Course Standard

Course Information

Description In this course, learners develop workforce readiness skills and build a foundation for success in cybersecurity-related careers. With video and rich interactive media support, participants learn, apply, and practice cybersecurity knowledge and skills through a series of in-depth, hands-on experiences and simulated activities that reinforce their learning. Cybersecurity Essentials teaches comprehensive cybersecurity concepts and skills at the entry level, from threat mitigation and defense to post-incident forensics. Learners will progress from basic cybersecurity concepts to experiences in assessing vulnerabilities and risks later in the curriculum.

Career Cluster Information Technology

Instructional Level Associate of Applied Science

Total Credits 3

INF 142 Cloud+

Course Standard

Course Information

Description This course prepares students and professionals who are interested in mastering fundamental, vendor-independent cloud computing concepts. No previous cloud computing experience is necessary to begin learning from this course, although knowledge of basic computer, networking, and security principles is helpful.

Career Cluster Information Technology

Instructional Level Associate of Applied Science

Total Credits 3

INF 144 Virtualization

Course Standard

Course Information

Description In this course students will learn how to implement and support virtualization of clients of servers in a networked computing environment. Through the course

curriculum student will explore installation, configuration, and management of computer virtualization workstation and servers.

Career Cluster	Information Technology
Instructional Level	Associate of Applied Science
Total Credits	3

INF 154 Ethical Hacker

Course Standard

Course Information

Description	In this course, learners develop ethical hacking and penetration testing skills that build a foundation for success in the cybersecurity industry. With the support of video and rich interactive media, participants learn, apply, and practice ethical hacking skills in meaningful ways through a series of realistic hands-on lab experiences. The course also includes many opportunities for learners to practice what they are learning as they are learning it. Learning by doing is the most powerful way to build new skills and knowledge.
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Career Cluster	Information Technology
Instructional Level	Associate of Applied Science
Total Credits	3

INF 160 Server Security

Course Standard

Course Information

Description	Server Security is designed to provide the students with concepts to develop, deploy, and maintain reliable and secure servers. Topics will include SSH keys, Firewalls, PKI systems, SSL and TLS encryption, service and file auditing.
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Career Cluster	Information Technology
Instructional Level	Associate of Applied Science
Total Credits	3

INF 164 Switching, Routing, and Wireless Essentials

Course Standard

Course Information

Alternate Title	Switching, Routing, & Wireless
Description	Delve further into the world of networking with the second CCNA course in a 3-course series. This course focuses on switching technologies and router operations that support small-to-medium business networks, including wireless local area networks (WLAN) and security concepts. Students will perform basic network configuration and troubleshooting, identify and mitigate LAN security threats, and configure and secure a basic WLAN. CCNAv7: Switching, Routing, and Wireless Essentials (SRWE) covers the architecture, components, and operations of routers and switches in small networks and introduces wireless local area networks (WLAN) and security concepts. Students learn how to configure and troubleshoot routers and switches for advanced functionality using security best practices and resolve common issues with protocols in both IPv4 and IPv6 networks.
Career Cluster	Information Technology
Instructional Level	Associate of Applied Science
Total Credits	3

INF 165 Advanced Cyber Security

Course Standard

Course Information

Description	Advanced Cyber Security is designed to enhance students' knowledge of security practices. The course will cover a range of topics that are vital for securing modern enterprises. Topics will include plans and policies, enterprise roles, security metrics, risk management, standards and regulations, physical security and business endurance.
Career Cluster	Information Technology
Instructional Level	Associate of Applied Science
Total Credits	3

INF 167 Enterprise Networking, Security, and Automation

Course Standard

Course Information

Alternate Title Enterprise Network, Sec & Auto

Description Large enterprises depend heavily on the smooth operation of their network infrastructures. The third course in the 3-course CCNA series describes the architectures and considerations related to designing, securing, operating, and troubleshooting enterprise networks. It covers wide area network (WAN) technologies and quality of service (QoS) mechanisms used for secure remote access along with the introduction of software-defined networking, virtualization, and automation concepts that support the digitalization of networks. CCNAv7: Enterprise Networking, Security, and Automation (ENSA) describes the architecture, components, operations, and security to scale for large, complex networks, including wide area network (WAN) technologies. The course emphasizes network security concepts and introduces network virtualization and automation. Students learn how to configure, troubleshoot, and secure enterprise network devices and understand how application programming interfaces (API) and configuration management tools enable network automation.

Career Cluster Information Technology

Instructional Level Associate of Applied Science

Total Credits 3

INF 172 Multi-Cloud Networking

Course Standard

Course Information

Description Cloud networking impacts all careers, and an awareness of the opportunities associated with this emerging field is critical. Support Specialists need to understand what it means to manage on and migrate to the cloud—and comprehend the overall landscape before diving into the platform. In this course, you will get a high-level overview just for support specialist, focusing on the features and services in a multi-cloud networking environment using Google Cloud, Amazon Web Services, and Microsoft Azure.

Career Cluster Information Technology

Instructional Level Associate of Applied Science

Total Credits 3

INF 174 Information Technology Capstone

Course Standard

Course Information

Alternate Title	Info Technology Capstone
Description	In this course students, will have the opportunity to link classroom/lab theory with a capstone learning opportunity. Through hands on application, reflection and evaluations, students will demonstrate integrated knowledge and growth in the field of information technology. Students will produce a critical reflection on their capstone experience demonstrating how they have addressed specific learning goals.
Career Cluster	Information Technology
Instructional Level	Associate of Applied Science
Total Credits	3

INF 175 Information Technology Internship

Course Standard

Course Information

Alternate Title	Info Technology Internship
Description	In this course, students will have the opportunity to link classroom/lab theory with an experimental learning opportunity. Through direct observation, reflection and evaluation, students gain an understanding of the internship site's work, mission, and customers, how these relate to their program of study, as well as the organization's position in the broader industry or field. Students will produce a critical reflection on their internship experience demonstrating how they have addressed specific learning goals.
Career Cluster	Information Technology
Instructional Level	Associate of Applied Science
Total Credits	3

INT 101 Interior Design Fundamentals

Course Standard

Course Information

Description	This course emphasizes the fundamentals of design by exploring design elements and principles, color rendering, space planning, and problem solving skills for interior design. Inclusive in this course are research techniques, creating illustration boards, and honing presentation skills.
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Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

INT 105 Blueprint Reading for Interior Design

Course Standard

Course Information

Alternate Title	BP Reading for Interior Design
Description	This is an introduction to blueprints for interior construction and service systems. Students will learn basic detail drawings, architectural drawings, and symbol and abbreviation identification used in blueprints. By using an architectural scale students will learn to draft floor plans. Construction documents, and communication with architects and contractors are included in this course.

Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

INT 110 Color Theory

Course Standard

Course Information

Description	This course introduces the use of color for interior design. Emphasis is on color theory, psychology of color and how it affects the brain and moods, and application of color in interior environments and lighting conditions. Included is the vocabulary of color, color temperatures, the principles of the color wheel and how to use it. With the use of paint values, tones, and shades are mastered.
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Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

INT 126 Textiles

Course Standard

Course Information

Description	By the end of the semester, each student will know various soft materials and treatments necessary for design of interior spaces, the functions of each, and their appropriate uses. Students should feel confident in researching design products.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

INT 127 Materials for Interior Environments

Course Standard

Course Information

Alternate Title	Matrls Interior Environments
Description	Explorations of various hard treatments used in design are covered in this course. By the end of the semester, each student will know various hard treatments necessary for design of interior spaces, the functions of each, and their appropriate uses. Accurate specifications of interior materials are emphasized in this course. Students should feel confident in researching design products. Each student will have started a reference library of local and national vendors.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

INT 141 History of Furniture & Architecture

Course Standard

Course Information

Alternate Title	History of Furniture and Arch
Description	This course provides students with the historical foundation of architecture and furniture, furniture styles, accent pieces, and accessories from Egyptian period through Post Modern. Students will learn chronologies, key terms, designer contributions, and ruler influence on furniture and architectural elements in a time

line manner. Through hands on experience with furniture and actually creating pieces of “art styled” furnishings they will comprehend what is involved in furniture making.

Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	5

INT 155 Lighting Technologies

Course Standard

Course Information

Description	This is an introduction to the basics of lighting technologies used in interior design: color, lighting styles, and lighting fixtures. Students will learn to read lamp indicators, calculate lumens and foot-candles, and determine proper heights and usage for various lighting techniques. An understanding of light analysis, residential and commercial lighting, lighting design, lighting applications, and requirements for various types of lighting are studied. Developments of lighting and electrical layouts on floor plans are inclusive in this course.
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Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

INT 160 Design Studio I

Course Standard

Course Information

Description	This course provides long projects that address real life design situations. It will develop competencies in solving design problems. Technical and conceptual concerns, color theory, lighting technology, scale, materials selection, and creative design articulation through presentation and illustrations are critical elements for this class. Deployment of invoicing techniques, material selection, and working within codes and standards are emphasized.
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Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science

Total Credits 3

INT 165 Design Studio II

Course Standard

Course Information

Description This course provides long-term projects that address real life design situations. It will develop competencies in solving design problems. Technical and conceptual concerns, color theory, lighting technology, scale, materials selection, and creative design articulation through presentation and illustrations are critical elements for this class. Development of invoicing techniques, material selection, working within codes and standards and working with a budget is emphasized in the course. Students will be working with real time case studies. Students may be invited to participate in events such as the Wichita Area Building Associations (WABA) Parade of Homes.

Career Cluster Business Management and Administration

Instructional Level Associate of Applied Science

Total Credits 3

INT 166 AutoCAD for Interior Design

Course Standard

Course Information

Description This course introduces computer-aided drafting (CAD). AutoCAD is used to set up drawings and construct lines, circles, arcs, other shapes, geometric constructions, and text. This course introduces drafting standards used for drawings with AutoCAD. Included are dimensioning, blocks, elevations, floor plans, section views, external references, construction drawings, standards for symbols and abbreviations, plotting and printing.

Instructional Level Associate of Applied Science

Total Credits 5

INT 168 Basic Chief Architect for Interior Design

Course Standard

Course Information

Description Students use the computers to learn how to utilize three dimensional software to design houses, residential and commercial spaces. This course provides

instruction in how to use the software and draw walls, windows, doors, cabinets, plumbing and electrical fixtures, furniture and accessories.

Career Cluster	Architecture and Construction
Instructional Level	Associate of Applied Science
Total Credits	3

INT 170 Business Practices & Portfolio Development

Course Standard

Course Information

Alternate Title	Business Pract & Portfolio Dev
Description	This course covers client contracts, presentation skills, resource development, business forms and legal forms, business management and laws pertaining to interior design. A professional personal portfolio is refined in this class for employment purposes. A professional resume will be included as part of the portfolio package. Students will obtain background knowledge necessary for successful business practices for interior design.

Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	4

INT 173 Design Studio III

Course Standard

Course Information

Description	This is the third course in the Design Studios series. In this course students will further develop competencies in solving design problems. Technical and conceptual concerns, color theory, lighting technology, scale, materials selection, and creative design articulation through presentation and illustrations are critical elements for this class. Development of invoicing techniques, material selection, working within codes and standards and working with a budget is emphasized in the course. Students will be working with real time case studies. Students may be invited to participate in events such as the Wichita Area Building Associations (WABA) Parade of Homes.
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Career Cluster	Architecture and Construction
Instructional Level	Associate of Applied Science
Total Credits	3

INT 190 Drafting for Interiors

Course Standard

Course Information

Description	This course is designed to help the student increase their knowledge concerning drafting blueprints for interior construction and service systems, and emphasizes the development of fundamental drafting techniques. Topics include terminology, care and use of drafting equipment, lettering, line relationships and geometric construction.
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Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

INT 192 Perspective Drawing for Interior Design

Course Standard

Course Information

Alternate Title	Illustration Interior Design
Description	This course is designed to help the student increase their knowledge of the fundamentals of design through the exploration of sketching, hand drawing and drawings in one and two point perspective using a variety of grid layouts, eye-levels, vanishing points, cones of vision, and lighting sources are used.

Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

INT 193 Rendering for Interior Design

Course Standard

Course Information

Description	This course is designed to help the student increase their knowledge of the fundamentals of design through the exploration perspectives, cones of vision, and lighting sources. Rendering techniques are mastered by employing markers and colored pencils. Rendered finishes include, but not limited to, reflective finishes, textures (wood, stones, and other elements), and shadows.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

INT 196 Interior Design Codes & Standards

Course Standard

Course Information

Alternate Title	Interior Design Codes & Stand
Description	This course is designed to focus on the most current and widely used building codes, fire codes, electrical and plumbing codes as required by the industry. Included are working with code officials, documenting projects both large and small, single-family homes, historical and existing buildings, and new construction.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

INT 218 Kitchen & Bath Design

Course Standard

Course Information

Description	This course is designed to help the student develop special considerations necessary to design and plan kitchens and baths. Topics include the study of the basic principles of kitchen and bath design, planning, proper function and layout, accurate measuring techniques, specification documentation, theme and historical design. The application of the National Kitchen and Bath Association's Guidelines of Planning Standards and Safety Criteria for residential kitchens and bathrooms, including Universal Design concepts, will be covered. Topics include
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the use of building codes, safety criteria, universal and accessibility criteria, and ergonomics.

Instructional Level	Associate of Applied Science
Total Credits	3

LEN 100 Lean for Operations

Course Standard

Course Information

Description	This course is designed to familiarize the students with the concepts and practices of Lean Manufacturing as applied in industry today. Students begin with a discussion of Lean Manufacturing's place in the overall process of continuous improvement. Students will then move on to learning to apply basic elements of lean, lean system design, lean tools and measurement methods to industry based scenarios.
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Career Cluster	Business Management and Administration
Instructional Level	Certificate of Completion
Total Credits	3

LEN 105 Lean Culture - People Systems

Course Standard

Course Information

Description	This course has been developed to enable the student to understand the differences between the current work cultures and a lean culture. Students will be able to identify the steps and changes necessary to implement lean while changing the culture to ensure the gains from Lean activities will continue.
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Career Cluster	Business Management and Administration
Instructional Level	Certificate of Completion
Total Credits	3

LEN 106 Value Stream Alignment

Course Standard

Course Information

Description	This course is designed to familiarize the students with the process of Value Stream Mapping and how to apply it to improve processes. The class will begin with a description of Value Stream Mapping and how it utilizes material and information flows. Students will learn how to complete a Current State Value Stream Map, evaluate the map and then create a Future State Value Stream Map and Implementation Plan.
Career Cluster	Business Management and Administration
Instructional Level	Certificate of Completion
Total Credits	3

LEN 109 Lean for Engineering

Course Standard

Course Information

Description	This course is designed to familiarize the students with the concepts and practices of Lean Manufacturing as applied in Engineering practices today. Students begin with an overview of Lean Manufacturing and continuous improvement. Students will then learn to apply basic elements of lean and process improvement to Engineering scenarios.
Career Cluster	Business Management and Administration
Instructional Level	Certificate of Completion
Total Credits	3

LEN 110 Lean for Services - Offices

Course Standard

Course Information

Description	This course will teach students the basics of both Lean and Six Sigma and how these problem solving methodologies apply to the service organizations. Students completing this course will be better prepared for real business world issues, and have the ability to apply these concepts and tools at a basic level.
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Career Cluster	Business Management and Administration
Instructional Level	Certificate of Completion
Total Credits	3

LGM 101 Principles of Logistics and Supply Chain Management

Course Standard

Course Information

Alternate Title	Principles Logistics & Supply
Description	Introduction to the field of logistics and supply chain management. Includes development of logistics systems, careers in logistics, distribution planning, supply chain security, and customer service. Also includes roles and functions of: purchasing, inventory control, physical distribution, warehousing, transportation methods, packaging, and customs.
Career Cluster	Transportation, Distribution and Logistics
Instructional Level	Associate of Applied Science
Total Credits	3

LGM 102 Inventory Control

Course Standard

Course Information

Description	A study of inventory control concepts and techniques. Includes, cost concepts, determining size and nature of inventory, forecasting, and inventory planning and control. Also includes ordering methods, controlling pilferage, and matching customer demand with supply.
Career Cluster	Transportation, Distribution and Logistics
Instructional Level	Associate of Applied Science
Total Credits	3

LGM 103 Contracts and Freight Claims

Course Standard

Course Information

Description A study of the considerations involved in the drafting and negotiation of freight and logistics contracts, and of loss avoidance and mitigation in transit. Includes legal and regulatory requirements applicable to contracts for product transportation, and logistics functions and considerations for drafting and negotiating contracts with freight carriers, warehousemen and other logistics service providers. Also includes customer satisfaction, claim preparation, filing procedures, and claim dispute resolution.

Career Cluster Transportation, Distribution and Logistics

Instructional Level Associate of Applied Science

Total Credits 3

LGM 104 Computerized Logistics

Course Standard

Course Information

Description Analysis of the use of computers in the logistics industry and an introduction to available logistics software. Includes the need for computers, the history and future of computers in the logistics industry, and the impact of computers on customer service. Also includes logistics software availability, selection and implementation, and security measures.

Career Cluster Transportation, Distribution and Logistics

Instructional Level Associate of Applied Science

Total Credits 3

LGM 105 Warehouse Management

Course Standard

Course Information

Description Survey of warehouse function, process, organization and operations. Includes analysis of warehouse location, operation, and management. Also includes

controls and procedures, financial analysis, security, cargo/materials handling, and productivity.

Career Cluster	Transportation, Distribution and Logistics
Instructional Level	Associate of Applied Science
Total Credits	3

LGM 106 Transportation and Traffic Management

Course Standard

Course Information

Alternate Title	Transportation & Traffic Mgmt
Description	A study of the domestic freight transportation system. Includes demand for freight movement, laws, regulations, pricing, and policies. Also includes traffic management, customer service, security, and international transportation issues.
Career Cluster	Transportation, Distribution and Logistics
Instructional Level	Associate of Applied Science
Total Credits	3

LGM 107 Introduction to Purchasing

Course Standard

Course Information

Description	Survey of basic purchasing functions. Includes establishing requirements and quantities, developing policies and procedures for purchasing, making purchasing decisions, receiving acceptable goods, arranging packaging and shipping, and managing inventory levels.
Career Cluster	Transportation, Distribution and Logistics
Instructional Level	Associate of Applied Science
Total Credits	3

LGM 108 International Logistics

Course Standard

Course Information

Description	An introduction to the role of logistics in global business. Includes the economic and service characteristics of international transportation providers, the government's role, documentation and terms of sale used in global business, and the fundamentals of effective export and import management.
Career Cluster	Transportation, Distribution and Logistics
Instructional Level	Associate of Applied Science
Total Credits	3

LGM 150 Supply Chain Analytics

Course Standard

Course Information

Description	This course introduces the student to data analytics and demonstrates the value of their effective use in supply chain management. By studying the key supply chain processes, the student will work through examples along with the descriptive, predictive and prescriptive analytic methods that can be applied to bring about improvements to those processes. Key topics addressed include optimization, big data, data mining and cloud computing. The course presents a comprehensive learning experience for the student regarding supply chain analytical problem solving.
Career Cluster	Transportation, Distribution and Logistics
Instructional Level	Associate of Applied Science
Total Credits	3

LGM 190 Logistics and Supply Chain Internship

Course Standard

Course Information

Alternate Title	Logistics & Supply Internship
Description	Culmination of logistics program. Includes guidelines and procedures for workplace learning, application of learned concepts on the job. Also includes initiation, management, and completion of capstone project. Consent of instructor is required before enrolling in this course. Students must complete 125 hours at a program-approved employer worksite.

Career Cluster	Transportation, Distribution and Logistics
Instructional Level	Associate of Applied Science
Total Credits	3

LGM 196 Capstone in Logistics & Supply Chain Management

Course Standard

Course Information

Alternate Title	Ind Study Logistics & Supply
Description	This capstone course provides the student with an opportunity to synthesize their learning from coursework through the Logistics & Supply Chain Management program. It requires students to write a detailed term paper as part of an in-depth study of supply chain management strategy and the decision-making processes. Students will use current journals and the latest literature to develop solutions to supply chain topics and industry of their choice.

Career Cluster	Transportation, Distribution and Logistics
Instructional Level	Associate of Applied Science
Total Credits	3

MCD 101 Introduction to CAD I

Course Standard

Course Information

Description	This course introduces computer-aided drafting (CAD) and examines the hardware that makes up a CAD workstation. It also covers the operating system (Microsoft Windows) that enables the equipment to function as a unit. The course shows how to use AutoCAD to set up drawings and construct lines, circles, arcs, other shapes, geometric constructions, and text. Students will use display and editing techniques as well to obtain information about their drawings and work with drawing files. This course also introduces recommended drafting standards for students to use for properly preparing drawings with AutoCAD. This course also examines dimensioning, blocks and attributes, section views, isometric drawings, multiview layouts, annotative objects, external references, and sheet sets. Students will learn how to use AutoCAD to dimension drawings, create section lines and graphic patterns, design symbols and attributes for multiple use, and create sheet sets. Student drawings will be plotted or printed. This course also covers recommended drafting standards and practices for students to use for properly preparing drawings with AutoCAD.
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Career Cluster	Architecture and Construction
Instructional Level	Associate of Applied Science
Total Credits	3

MCD 102 Introduction to CAD II

Course Standard

Course Information

Description This course is a continuation of Introduction to CAD I. All the skills taught in Introduction to CAD I will be reinforced with projects.

Career Cluster	Architecture and Construction
Instructional Level	Associate of Applied Science
Total Credits	2

MCD 104 Blueprint Reading for Drafting

Course Standard

Course Information

Description This course introduces the basic principles of print reading. Topics include line types, orthographic projections, dimensioning methods, and notes. Upon completion, students should be able to interpret basic prints and visualize the features of a part or system.

Career Cluster	Architecture and Construction
Instructional Level	Associate of Applied Science
Total Credits	2

MCD 105 Technical Drafting I

Course Standard

Course Information

Description	Includes instruction in sketching and lettering, use and care of drafting equipment, geometric construction, multi-views, basics of isometrics, oblique projection and a study of drafting technology and ANSI Standards. Students draw introductory drawings to scale.
Career Cluster	Architecture and Construction
Instructional Level	Associate of Applied Science
Total Credits	1

MCD 106 Precision Measuring

Course Standard

Course Information

Description	This course is designed to assist multiple technical training disciplines with the proper operation, calibration, and measuring technique's required for utilizing precision measurement equipment effectively. Both SAE and metric measuring instruments will be covered; including steel rules, feeler gauges, precision straight edge, calipers, inside and outside micrometers, angle measurement, small hole gauges, telescoping gauges and dial indicators.
Career Cluster	Architecture and Construction
Instructional Level	Associate of Applied Science
Total Credits	2

MCD 112 Industrial Materials & Processes

Course Standard

Course Information

Alternate Title	Industrial Mat & Processes
Description	Includes instruction in materials, measurement, specifications, design principles, hardware and fasteners, vocabulary, machine fabrication, Geometric Dimensioning and Tolerance (GD&T), Machinery's Handbook, surface finishes and an understanding of the fabrication practices used in manufacturing and construction.
Career Cluster	Architecture and Construction
Instructional Level	Associate of Applied Science

MCD 114 Architectural Drafting & Design

Course Standard

Course Information

Alternate Title Arch Drafting & Design

Description Includes instruction in freehand drawing, basic residential planning, creative design, dimensioning, working details, light construction principles, building systems and blueprint development, learning construction terminology, applying ANSI Standards, local codes and drawing prints to industry standards.

Career Cluster Architecture and Construction

Instructional Level Associate of Applied Science

Total Credits 3

MCD 115 Machine Drafting & Design

Course Standard

Course Information

Description Includes instruction in creative design, geometric construction, auxiliaries, dimensioning, sectioning, isometrics, oblique's, specifications and notes, manufacturing engineering techniques and the Machinery's Handbook. Includes developing prints of working drawings, researching trade periodicals, learning machine terminology, using ANSI Standards and basic manufacturing blueprint development.

Career Cluster Architecture and Construction

Instructional Level Associate of Applied Science

Total Credits 3

MCD 121 Descriptive Geometry

Course Standard

Course Information

Description Students use computers to study descriptive geometry as it applies to drafting, and they determine true length of lines, true shapes of planes and apply descriptive

geometry to real problems. Students will also create flat pattern layouts for form three dimensional shapes.

Career Cluster	Architecture and Construction
Instructional Level	Associate of Applied Science
Total Credits	3

MCD 124 Advanced AutoCAD

Course Standard

Course Information

Description	This course explores the three-dimensional construction and viewing capabilities of AutoCAD. Topics covered include a review of point coordinate entry and the user coordinate system (UCS). Spherical and cylindrical coordinate entry, 3D viewing and display techniques, construction of 3D solid primitives, 2D regions, solid modeling composites, and surfaces are also introduced. The use of multiple viewports for 3D constructions and creating 2D layouts are covered. Visual styles and rendering are also discussed.
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Career Cluster	Architecture and Construction
Instructional Level	Associate of Applied Science
Total Credits	4

MCD 130 Basic Solidworks

Course Standard

Course Information

Description	Students Learn how to use the SOLIDWORKS mechanical design automation software to build parametric models of parts and how to make drawings of those parts.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

MCD 132 Basic Chief Architect/Architectural Desktop

Course Standard

Course Information

Alternate Title	Basic Chief Arch/Arch Desktop
Description	Students use the computers to learn how to utilize three dimensional software to design houses. This course provides instruction in how to use the software and draw walls, windows, doors, foundations, and roofs.
Career Cluster	Architecture and Construction
Instructional Level	Associate of Applied Science
Total Credits	3

MCD 133 Advanced Solidworks

Course Standard

Course Information

Description	Students Learn how to use the SOLIDWORKS mechanical design automation software to create advanced part modeling and assemblies. Using the software we will also look at assembly blueprint creation as well as prepping for the CSWA exam.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

MCD 134 Advanced Chief Architect/Architectural Desktop

Course Standard

Course Information

Alternate Title	Adv Chief Arch/Arch Desktop
Description	Students use the computers to learn how to utilize three dimensional software to design houses. This course provides instruction in how to add interior furniture, terrains, elevations, working drawings, presentation drawings and how to use the camera functions.
Career Cluster	Architecture and Construction
Instructional Level	Associate of Applied Science

MCD 137 Introduction to 3D Printing

Course Standard

Course Information

Description	This course seeks to provide the student with a basic understanding of the industrial design process, using the 3D printer capability to obtain hands-on experience in producing a design from concept to prototype. Major topics covered this introductory course include: Basic Part Design using AutoDesk Inventor; Basic Part Design using Solidworks; 3D Part Modeling
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	2

MCD 140 Drafting Technology Internship

Course Standard

Course Information

Alternate Title	Drafting Technology Intern
Description	Introduces students to the application and reinforcement of drafting and employability principles in an actual job setting. This internship acquaints the student with realistic work situations and provides insights into a drafting job. Topics include appropriate work habits, acceptable job performance, application of drafting/CAD knowledge and skills, interpersonal relations, and development of productivity.
Career Cluster	Architecture and Construction
Instructional Level	Associate of Applied Science
Total Credits	4

MCD 156 Intermediate Measuring Instruments

Course Standard

Course Information

Alternate Title	Interm Measuring Instruments
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Description	This course provides a comprehensive introduction to Intermediate Measuring Instruments. It covers the fundamentals of Primary Standards, Dimensional Measurements, Support and Layout, Flexible Measurements, and more. You will learn how to properly use, maintain, and troubleshoot a wide range of measuring instruments. You will also gain an understanding of the theoretical principles of calibration and the importance of traceability. This course is designed for engineers, technicians, and other professionals who need an understanding of intermediate measuring instruments.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

MCD 164 Residential Design Using Autodesk

Course Standard

Course Information

Alternate Title	Residential Design Using Autodesk Rev
Description	Residential Design Using Autodesk Revit is designed for users completely new to Autodesk Revit. This text takes a project-based approach to learning Autodesk Revit's architectural tools in which you develop a single-family residence all the way to photorealistic renderings.
Career Cluster	Architecture and Construction
Instructional Level	Associate of Applied Science
Total Credits	4

MCD 201 Geometric Dimensioning & Tolerance

Course Standard

Course Information

Alternate Title	Geometric Dimen & Tolerance
Description	The Geometric dimensioning and tolerance course is an in-depth study designed to develop a basic working knowledge in geometric dimensioning and tolerancing (GD&T). It is delivered per the ASME Y14.5M, 1994 standard. This program has been presented and refined over the past 25 years and covers what personnel need to know in order to work in an industrial environment on a daily basis. The course includes emphasis on all the basics, such as the rules, measurement

theory, the datum reference frame, form, orientation, profile and positional tolerancing. The program materials contain a variety of computer color animated graphics, video clips and plastic models which allow the students to clearly understand the concepts.

Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

MCD 205 Residential Drafting

Course Standard

Course Information

Description	Introduces architectural drawing skills necessary to produce a complete set of construction drawings given floor plan information. Topics include: footing, foundation, and floor plans; interior and exterior elevations; sections and details; window, door, and finish schedules; site plans, and specifications.
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Career Cluster	Architecture and Construction
Instructional Level	Associate of Applied Science
Total Credits	3

MCD 210 Advanced Measuring

Course Standard

Course Information

Description	This course is designed to assist multiple advanced technical training disciplines with the proper operation, field verification, and measuring techniques of instruments utilized in precision machining and manufacturing. Both SAE and metric measuring instruments will be covered in topics including Primary standards, Flexible Measuring Instruments, Support and Layout, Surface Finishing and Hardness, Data Acquisition and Optical Comparator.
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Instructional Level	Associate of Applied Science
Total Credits	3

MCD 224 Commercial Design Using Autodesk Revit

Course Standard

Course Information

Alternate Title	Commercial Design Autodesk Rev
Description	Commercial Design Using Autodesk Revit is to provide you with a well-rounded knowledge of tools and techniques for use in both school and industry. A project-based approach to learning Revit's architectural tools in which you develop a three-story office building. General building codes and industry standard conventions are covered in a way that is applicable to the current exercise.
Career Cluster	Architecture and Construction
Instructional Level	Associate of Applied Science
Total Credits	3

MDU 010 Medication Aide Update

Course Standard

Course Information

Description	Provides the continuing education required every two years by the Kansas Department of Health and Environment for renewal of the medication aide certificate.
Career Cluster	Health Science
Instructional Level	Certificate of Completion
Total Credits	1

MFG 100 Lean Manufacturing

Course Standard

Course Information

Description	This course is designed to familiarize the students with the concepts and practices of Lean Manufacturing as applied in industry today. Students begin with a discussion of Lean Manufacturing's place in the overall process of continuous improvement. Students will then move on to learning to apply basic elements of lean, lean system design, lean tools and measurement methods to industry based scenarios.
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Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

MFG 125 Manufacturing Internship

Course Standard

Course Information

Description	The internship represents an educational strategy linking the classroom with the acquisition of knowledge in the workplace. Through direct observation, reflection and evaluation, students gain an insight into the internship site's work, mission, and audience, how these relate to their academic study, as well as the organization's position in the broader industry or field. Students will produce a critical reflection on their internship experience demonstrating how they have addressed specific learning goals.
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Career Cluster	Manufacturing
Instructional Level	Certificate of Completion
Total Credits	1

MGT 106 Introduction To Human Resources

Course Standard

Course Information

Alternate Title	Intro to Human Resources
Description	Comprehensive view of human resources within an organization. Students examine the human resource functions of strategic human resource management, workforce planning, recruitment and selection, human resource development (training and development), total rewards (compensation and benefits), employee and union relations and risk management (health, safety and security). Emphasis is placed on understanding how human resource management contributes to an organization's strategic direction and enhances the organization's competitiveness.

Career Cluster	Business Management and Administration
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Instructional Level	Associate of Applied Science
Total Credits	3

MGT 111 Business Ethics

Course Standard

Course Information

Description	Provides students with an overview of business ethics and ethical management practices, with emphasis on the process of ethical decision-making and working through contemporary ethical dilemmas faced by business organizations, managers and employees. The course is intended to demonstrate to the students how ethics can be integrated into strategic business decisions and can be applied to their own careers. The course uses a case study approach to encourage the student in developing analytical, problem-solving, critical thinking and decision-making skills. Topics include: An overview of business ethics; moral development and moral reasoning, personal values, rights and responsibilities; frameworks for ethical decision-making in business' justice and economic distribution' corporations and social responsibility, corporate codes of ethics and effective ethics programs, business and society; consumers and the environment; ethical issues in the workplace; business ethics in a global and multicultural environment; business ethics in cyberspace; and business ethics and the rule of law.
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Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

MMG 113 Print Reading

Course Standard

Course Information

Description	Student will learn to identify basic lines, views, and abbreviations used in blueprints, interpret basic 2 D sketches using orthographic projections and blueprints, determine dimensions of features of simple parts, sketch simple parts with dimensional measurements, determine dimensions of a multi-feature part, interpret GDT symbols, frames and datums.
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Career Cluster	Manufacturing
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Instructional Level	Associate of Applied Science
Total Credits	3

MMG 116 Quality Control & Inspection

Course Standard

Course Information

Description	Students are introduced to the science of dimensional metrology and its applications to ensure form and function of machined parts and assemblies using semi-precision and precision measuring instruments.
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Career Cluster	Manufacturing
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Instructional Level	Associate of Applied Science
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Total Credits	1
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MMG 130 Bench Work

Course Standard

Course Information

Description	In this course students will learn the importance of tool management and tool presetting in a production environment. Examines tool presetting and tool presetter programming. Provides students with the opportunity to inspect and validate complex tool geometry using a computer numerical controlled (CNC) tool presetter.
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Career Cluster	Manufacturing
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Instructional Level	Associate of Applied Science
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Total Credits	1
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MMG 131 Metallurgy

Course Standard

Course Information

Description	Students learn the metallurgical terms and definitions in an effort to understand the behavior and service of metals in industry. Characteristics during heating, cooling, shaping, forming, and the stress related to their mechanical properties are
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covered, as well as the theory behind alloys, heat treatment processes and wear resistance.

Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	1

MMG 132 Machine Tool Processes

Course Standard

Course Information

Description	This course provides students with the opportunity to demonstrate process and quality control through the use of information technology (IT) systems in the manufacturing environment. Covers the use of measure cuts in high-end machining, systems communication, and data transfer to monitor productivity and quality. Features tools to monitor part quality in process.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	1

MMG 135 Machining Fundamentals

Course Standard

Course Information

Description	This course will provide students with a solid foundation in all aspects of conventional mills and lathes. In this project- based course students will learn and apply skills in machining benchwork, blueprint analysis and project planning. The course projects will require that students learn all aspects of lathe/mills set up and usage techniques including work holding selection and feed and speed calculation. Knowledge of machine maintenance, tool selection, math skills, and job hazard analysis are also applied in this course.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

MMG 140 Metrology

Course Standard

Course Information

Description	Students will learn the proper operation, field verification, and measuring techniques utilized in the machining industry. In this course students apply knowledge on state of art equipment and utilize simulation software. Additionally, students will learn and comply with TS-16949, ISO 9001 and MSA (Measurement Systems Analysis).
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	4

MMG 154 Multi-Cell Operations

Course Standard

Course Information

Description	In this course students will learn robotic/automation principles needed to function in the modern machining environment. In the course students will obtain hands on experience by applying CNC operation skills to multi cell robotic environment.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	4

MMG 155 CNC Lathe

Course Standard

Course Information

Description	Introduces students to two axis computer numerical control lathes machining. The theory of operations is developed in the classroom and through interactive on line learning. Students then apply the knowledge in a cutting edge CNC laboratory. Topics include machine set up, coordinates terminology, cutter paths, angel cutting, and linear cutting.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

MMG 156 CNC Operations

Course Standard

Course Information

Description	Students will become acquainted with the history of Numerical Control (NC) and Computer Numerical Control (CNC) machines and will be introduced to a CNC machine used in the precision machining trades. They will gain practical experience in the application of "G" codes and "M" codes, writing CNC machine programs, and machine setup and operation.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

MMG 160 CNC Milling I

Course Standard

Course Information

Description	Students will gain practical experience in setting up and performing basic operations on CNC Milling machines.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

MMG 164 Advanced Machining Processes

Course Standard

Course Information

Description	In this course students will apply knowledge and skills learned throughout the program to complex machining projects. Working in a state of the art machining
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laboratory students will produce projects which reflect the most advanced skills needed in the machining industry.

Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

MMG 170 Mastercam Mill 2 Axis

Course Standard

Course Information

Description	An introductory level course for Mastercam Software. This course will cover 3D modeling, 2D Machining, Gcode generation and the creation of set-up documentation.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	4

MMG 173 G D & T for Machining

Course Standard

Course Information

Description	The Geometric dimensioning and tolerance course is an in-depth study designed to develop a working knowledge in geometric dimensioning and tolerancing (GD&T) as it applies to Machining. It is delivered per the ASME Y14.5M, 1994 standard. This program has been presented and refined over the past 25 years and covers what personnel need to know in order to work in a Machining environment on a daily basis. The course includes emphasis on all the basics, such as the rules, measurement theory, the datum reference frame, form, orientation, profile and positional tolerancing. The program materials contain a variety of computer color animated graphics, video clips and plastic models which allow the students to clearly understand the concepts.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

MMG 175 Mastercam Mill 3D Surface

Course Standard

Course Information

Description	This course introduces the methods used to create toolpaths for a CNC machining center using three dimensional solid models. Topics include 3D Wireframe & Surface, Surface Rough Plunge, Surface Finish Contour, Surface Finish Shallow, Surface Rough Pocket, and Surface Finish Contour.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	4

MMG 180 Mastercam 4 & 5 Axis Mill

Course Standard

Course Information

Description	This course introduces the methods used to create 4 and 5 Axis toolpaths for a CNC machining center using three dimensional solid models. Topics include 4 and 5 Axis machining of complex geometry.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	4

MMG 184 Multi-Axis Milling

Course Standard

Course Information

Description	This course will build on the concepts learned in the CNC Milling course and teach students how to set up and operate 4th and 5th axis milling machines. Students will understand the concept of rotational axes and be introduced to probing routines and automatic tool setters. Students will learn the application of the work coordinate system in the multi-axis environment and be introduced to more complex work holding options.
Career Cluster	Manufacturing

Instructional Level	Associate of Applied Science
Total Credits	4

MMG 225 Internship/Directed Work Study

Course Standard

Course Information

Description This internship course offers students opportunities to be employed in their field with a 40-hour work week to expand their work experience related to their field of study.

Career Cluster Manufacturing

Instructional Level Associate of Applied Science

Total Credits 4

MNF 110 CNC Basics

Course Standard

Course Information

Description Students will acquire knowledge of Computer Numerical Control (CNC) machines and will be introduced to CNC machines used in the precision machining trades. They will gain practical experience in the use of CNC Mills/Lathes through machine setup and operation.

Career Cluster Manufacturing

Instructional Level Associate of Applied Science

Total Credits 2

MNF 113 Blueprint Basics For Manufacturing

Course Standard

Course Information

Description This course is an introduction to reading and interpreting blueprints. Topics include blueprint views, lines, dimensions and tolerances and blueprint symbols. Working

in an interactive online environment students' learn a systematic approach to reading blueprints.

Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	2

MNF 115 Forklift Operations

Course Standard

Course Information

Description This course is designed to train entry level workers in the correct use of a forklift to unload, move, stack, and load materials for shipping and distribution.

Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	1

MNF 120 Manufacturing Processes & Production I

Course Standard

Course Information

Alternate Title Processes & Production I

Description This course provides the introduction in a three part series of instruction which is designed to provide students with a broad and basic understanding of manufacturing processes and production principles. In this course, students will explore a variety of topics that offer not only an understanding of manufacturing as an industry but also manufacturing as a career pathway. Using federal and nationally recognized standards, this coursework focuses on topics pertinent to manufacturing operation and production including the major components of manufacturing, the types of manufacturing processes, the key elements of production planning, industry specific opportunities in manufacturing and career field specific opportunities in manufacturing.

Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science

Total Credits 3

MNF 125 Maintenance Training

Course Standard

Course Information

Description In this course the student will learn how to monitor production equipment for both routine and preventive maintenance. The use of OEE (Overall Equipment Efficiency) is introduced; Targeting each fix in a production system under a 'zero fails' mentality. Monitoring includes, analysis of equipment performance, Autonomous Maintenance (AM), and practicing planned stops for CIL's (Clean, Inspect, Lube) and Preventative Maintenance (PM) by recording, evaluating and categorizing failure through the visualization of data.

Career Cluster Manufacturing

Instructional Level Associate of Applied Science

Total Credits 4

MNF 130 Manufacturing Processes & Production II

Course Standard

Course Information

Alternate Title Processes & Production II

Description In this course students continue their study of current manufacturing processes & production concepts. During the course the Federally-endorsed and national-endorsed standards required in industry and production are explored. The emphasis is placed on Just-In-Time (JIT) manufacturing principles, communication skills, an overview of Cause and Effect of equipment failure and how to apply the 8 Pillars of Total Productive Maintenance (TPM) methodology.

Career Cluster Manufacturing

Instructional Level Associate of Applied Science

Total Credits 3

MNF 135 Electrical Concepts

Course Standard

Course Information

Description	In this course students will be introduced to basic electrical theory as it relates to the manufacturing environment. Students will be able to demonstrate knowledge of circuit diagrams and applications of safe electrical practices.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

MNF 140 Basic PLC's

Course Standard

Course Information

Description	This course introduces operational theory, systems terminology, PLC installations, and programming procedures for programmable logic controls. Emphasis is placed on PLC programming, connections, installations, and start-up procedures. Topics include: PLC hardware and software, PLC functions and terminology, PLC installation and set up, PLC programming basics, relay logic instructions, timers and counters, connecting field devices to I/O cards, and PLC safety procedures.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

MNF 145 Fluid

Course Standard

Course Information

Description	In this course students will learn the concepts relating to hydraulic systems. Students will be able to identify fluid movement types and processes and demonstrate knowledge of fluid-based transmission systems.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	2

MNF 147 Introduction to Kitting

Course Standard

Course Information

Description	The Advanced Production Assembly Kitting course is designed to provide participants with a comprehensive understanding of the principles, practices, and techniques involved in efficient and effective production assembly kitting. Participants will delve into the entire kitting process, from planning and inventory management to quality control and optimization, equipping them with the skills to streamline assembly operations and enhance overall productivity.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	4

MNF 150 Automation in Manufacturing

Course Standard

Course Information

Description	This course in “Automation in Manufacturing” is designed with the primary focus on the design and development of automated systems in manufacturing. The course introduces various automated systems being used in the manufacturing industry (Industry 4.0).
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

MNF 155 Digital Electronics

Course Standard

Course Information

Description	This course is designed to provide students with the concepts and terminology utilized in digital electronics. The student will be exposed to the most basic concepts of digital electronics to a wide variety of the fundamentals for circuits used in today’s switching circuits. Once an understanding of the numbering system is achieved the course proceeds to basic logic circuits.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

MNF 157 Lean/Six Sigma

Course Standard

Course Information

Description	The Lean/Six Sigma White Belt Certification Course at WSU Tech is designed to equip students with fundamental knowledge and skills in Lean and Six Sigma methodologies. This course provides a comprehensive introduction to process improvement, waste reduction, and data-driven decision-making principles. Students will develop a strong foundation in problem-solving techniques, statistical analysis, and collaborative teamwork essential for success in today's competitive industries.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

MNF 160 Manufacturing Processes & Production III

Course Standard

Course Information

Alternate Title	Processes & Production III
Description	In this course students further enhance their understanding of manufacturing process and production including those identified as Industry 4.0 skills. During the course the Federally-endorsed and national-endorsed standards required in industry and production are explored. The emphasis is placed on Just-In-Time (JIT) manufacturing principles, communication skills, an overview of Cause and Effect of equipment failure and how to apply the 8 Pillars of Total Productive Maintenance (TPM) methodology.

Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

MNF 163 Production Assembly

Course Standard

Course Information

Description This course presents a systematic approach to production assembly operations in manufacturing. Students receive instruction in the fundamentals of assembly skills used throughout the modern manufacturing sector. Skill development includes torque wrenches, fittings, installing, operating, and maintaining o-rings and lip seals, assembling hoses and couplings, and routing hoses using clamps, brackets, and clips. In addition, the course includes the identification of fittings and handling of steel and plastic tubing.

Career Cluster Manufacturing

Instructional Level Associate of Applied Science

Total Credits 3

MNF 165 Automated Supply Chain

Course Standard

Course Information

Description Students will acquire knowledge of supply chain automation to leverage digital technologies such as artificial intelligence (AI), machine learning (ML), optical character recognition (OCR), and robotics to lower the operational cost of delivering a product or service with primary emphasis on warehouse automation, predictive analytics, Internet of Things, and Cloud Logistics.

Career Cluster Manufacturing

Instructional Level Associate of Applied Science

Total Credits 3

MNF 170 Drones and Data Analysis

Course Standard

Course Information

Description This course will provide an introduction into the world of Unmanned Aerial Vehicles (UAVs) and the systems which support UAVs. Students will gain the knowledge

and skills to become a drone certified pilot while learning how data collected during UAV operations is analyzed and operationalized in the manufacturing sector.

Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

MNF 175 Manufacturing Technology Applied Learning Experience

Course Standard

Course Information

Alternate Title Applied Learning Experience

Description The applied learning experience represents an educational strategy linking the classroom with the acquisition of knowledge in the workplace. Through workplace participation, direct observation, reflection and evaluation, students gain an insight into the internship site's work, mission, and audience, how these relate to their academic study, as well as the organization's position in the broader industry or field. Students will produce a critical reflection on their internship experience demonstrating how they have addressed specific learning goals.

Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

MTH Math Elective

Course Standard

Course Information

Description This is a place holder course for the math electives. To fulfill this elective students may choose between MTH 101 or MTH 112.

Instructional Level	Associate of Applied Science
Total Credits	3

MTH 020 Math Fundamentals

Course Standard

Course Information

Description This online course provides students a thorough study in the arithmetic of real numbers with elementary applications in consumer math and measurement. Students are introduced to the basic concepts of algebra. Topics include: Whole Numbers and Introduction to Algebra; Integers; Introduction to Equations and Algebraic Expressions; Fractions, Ratios, and Proportions; Operations on Fractional Expressions; Decimals and Percents; Measurement, Geometric Figures and Measures of Central Tendency.

Instructional Level Technical Certificate

Total Credits 3

MTH 025 PACER Mathematics I

Course Standard

Course Information

Description This traditional/hybrid course provides the opportunity for students to master the math skills required for the chosen academic/career goals via an individualized, self-accelerated pathway. Topics include: Whole Numbers and Introduction to Algebra; Integers; Introduction to Equations and Algebraic Expressions; Fractions, Ratios, and Proportions; Operations on Fractional Expressions; Decimals and Percents; Measurement, Geometric Figures and Measures of Central Tendency.

Instructional Level Associate of Applied Science

Total Credits 3

MTH 035 PACER Mathematics II

Course Standard

Course Information

Description This traditional/hybrid course provides the opportunity for students to master the math skills required for their chosen academic/career goals via an individual, self-accelerated pathway. This course is a continuation of the curriculum started in PACER Mathematics I. Topics include: Introduction to Polynomials; Equations, Inequalities, and Applications; Graphing and Functions; Systems of Linear Equations and Inequalities; Exponents and Polynomials.

Instructional Level Associate of Applied Science

Total Credits 3

MTH 050 Beginning Algebra with Review

Course Standard

Course Information

Description This course provides students with a solid foundation of beginning algebraic concepts combined with an embedded review of fundamental mathematical skills.

Career Cluster Education and Training

Instructional Level Associate of Applied Science

Total Credits 4

MTH 095 Mathematical Reasoning

Course Standard

Course Information

Description A mathematics course focused on the skills and knowledge required for numerical and quantitative literacy. The course emphasizes the development of critical thinking and quantitative reasoning skills necessary to understand, analyze, and interpret real-world quantitative information in the context of a discipline or an interdisciplinary problem and to draw conclusions that are relevant to students in college, career, and life.

Career Cluster Education and Training

Instructional Level Associate of Applied Science

Total Credits 3

MTH 101 Intermediate Algebra

Course Standard

Course Information

Description This course will provide students with the algebraic skills necessary to begin understanding abstract mathematical concepts that involve arithmetic and algebraic manipulation, equations and inequalities, graphs, analysis of equations and graphs, and real-world applications.

Instructional Level	Associate of Applied Science
Total Credits	3

MTH 102 Intermediate Algebra with Review

Course Standard

Course Information

Alternate Title	Intermediate Algebra w/Review
Description	This online course provides students with the same algebraic skills discussed in MTH 101 (Intermediate Algebra) with additional review and practice of elementary algebraic skills. Topics include: Introduction to Polynomials; Equations, Inequalities, and Applications, Graphing and Functions; Systems of Linear Equations and Inequalities; Exponents and Polynomials; Factoring; Rational Expressions and Equations; Rational Exponents and Radicals; and Introduction to Quadratic Equations.
Career Cluster	Science, Technology, Engineering and Mathematics
Instructional Level	Associate of Applied Science
Total Credits	5

MTH 105 PACER Mathematics III

Course Standard

Course Information

Description	This traditional/hybrid courses provides the opportunity for students to master the math skills required for their chosen academic/career goals via an individualized, self-accelerated pathway. This course is a continuation of the curriculum completed in PACER Mathematics I & II. Topics include: Factoring; Rational Expressions and Equations; Rational Exponents and Radicals; and Quadratic Equations.
Instructional Level	Associate of Applied Science
Total Credits	3

MTH 108 Contemporary Math

Course Standard

Course Information

Description	This course is a designed to provide a deep understanding of mathematical concepts and their real-world applications for today's society. It is a collection of applications of mathematics illustrating how contemporary mathematical thinking is used in the decision-making process. The course focuses on practical problem-solving, critical thinking, and mathematical literacy that you can use in your everyday life and future career.
Career Cluster	Education and Training
Instructional Level	Associate of Applied Science
Total Credits	3

MTH 111 College Algebra with Review

Course Standard

Course Information

Description	This course is an introduction of algebraic functions and some transcendental functions with application in business and life, natural and social sciences. Topics include solving equations, zeros, rational functions, matrices, exponentials and logarithms and systems. Additional topics are included as time permits. Students must furnish their own TI-83 or TI- 83 PLUS graphing calculators.
Career Cluster	Science, Technology, Engineering and Mathematics
Instructional Level	Associate of Applied Science
Total Credits	5

MTH 112 College Algebra

Course Standard

Course Information

Description	This course will enable the student to use and interpret the mathematical symbols and notation relating to functions. The student will analyze the graphs of various mathematical functions with the assistance of a graphing utility, including polynomial, rational, root, absolute value, logarithmic and exponential functions, and solve related equations and inequalities, including systems of equations and inequalities. The student will use both graphical analysis and equation solving in the context of word problems. Topics include: Equations and Inequalities; Functions and Graphs; Polynomial and Rational Functions; Exponential and Logarithmic Functions; Systems of Equations and Inequalities; Matrices and Determinants. The learning outcomes and competencies detailed in this outline meet, or exceed the learning outcomes and competencies specified by the Kansas
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Core Outcomes Project for this course, as approved by the Kansas Board of Regents (Transfers as MAT 1010).

Instructional Level	Associate of Applied Science
Total Credits	3

MTH 113 Trigonometry

Course Standard

Course Information

Description	This course will enable the student to identify and manipulate trigonometric functions, solve triangles, use and prove identities, solve trigonometric equations, use and apply vectors to real-life models, and use complex numbers and polar coordinates. Topics include: Angles and the Trigonometric Functions; Graphs of the Trigonometric Functions; Inverse Trigonometric Functions; Trigonometric Identities; Laws of Sines and Cosines; Vectors; Complex Numbers, Polar Coordinates and Parametric Equations. The learning outcomes and competencies detailed in this outline, meet or exceed the learning outcomes and competencies specified by the Kansas Core Outcomes Project for this course, as approved by the Kansas Board of Regents (Transfers as MAT 1030)
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Career Cluster	Science, Technology, Engineering and Mathematics
Instructional Level	Associate of Applied Science
Total Credits	3

MTH 115 Pre-Calculus Mathematics

Course Standard

Course Information

Description	This course will enable the student to develop and apply models using linear, polynomial, rational, logarithmic, exponential, and trigonometric functions. The successful student will be able to identify and manipulate functions, solve equations, prove trigonometric identities, solve triangles, and use polar coordinates. Topics include: Equations and Inequalities; Functions and Graphs; Polynomial and Rational Functions; Exponential and Logarithmic Functions; Systems of Equations and Inequalities; Matrices and Determinants; Angles and the Trigonometric Functions; Graphs of the Trigonometric Functions; Inverse Trigonometric Functions; Trigonometric Identities; Laws of Sines and Cosines; Vectors; Complex Numbers, Polar Coordinates and Parametric Equations.
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Instructional Level Associate of Applied Science

Total Credits 5

MTH 120 Elementary Statistics

Course Standard

Course Information

Description This course will enable the student to collect data by appropriate sampling techniques, summarize data with graphs and tables, calculate descriptive statistics, identify misuses of statistics, assess risk using concepts of probability, estimate and make decisions about means and proportions through the use of confidence intervals and hypothesis testing, and perform linear regression. Topics include: Data Collection; Organizing and Summarizing Data; Numerically Summarizing Data; Describing the Relation between Two Variables; Probability; Discrete Probability Distributions; The Normal Probability Distribution; Sampling Distributions; Estimating the Value of a Parameter; Hypothesis Tests Regarding A Parameter, and Inferences on Two Samples. The learning outcomes and competencies detailed in this outline meet, or exceed the learning outcomes and competencies specified by the Kansas Core Outcomes Project for this course, as approved by the Kansas Board of Regents (Transfers as MAT 1020).

Instructional Level Associate of Applied Science

Total Credits 3

MTH 121 Elementary Statistics Lab with Excel

Course Standard

Course Information

Alternate Title Elementary Stats Lab w/Excel

Description Using Excel to construct Frequency Tables & Histograms, compute and explore Measures of Tendency. Sampling Distributions, Confidence Intervals, and Hypotheses testing. This course requires that the student have MICROSOFT EXCEL 97 or greater.

Instructional Level Associate of Applied Science

Total Credits 1

MTH 125 Calculus I

Course Standard

Course Information

Description	This course will enable the students to solve problems involving limits, derivatives and some types of definite and indefinite integrals both analytically and graphically, and use them in physical applications. The learning outcomes and competencies detailed in this outline meet, or exceed the learning outcomes and competencies specified by the Kansas Core Outcomes Project for this course, as approved by the Kansas Board of Regents (Transfers as MAT 2010).
Instructional Level	Associate of Applied Science
Total Credits	5

MTH 150 Calculus II

Course Standard

Course Information

Description	This course will enable the student to understand applications and methods of integration, improper integrals, convergence and divergence of infinite series, graphs of conic sections, the polar coordinate system, parametric equations, and linear algebra
Career Cluster	Science, Technology, Engineering and Mathematics
Instructional Level	Associate of Applied Science
Total Credits	5

MUS 110 Music Appreciation

Course Standard

Course Information

Description	This course is designed for non-music majors. A background in music is not necessary for enrollment. Emphasis is placed on the development of competence in listening to music through the study of the sources, mediums, elements of music, musical forms, composers, and periods of music
Career Cluster	Education and Training
Instructional Level	Associate of Applied Science
Total Credits	3

NDT 100 Penetrant Inspection

Course Standard

Course Information

Description	In this course students will master the competencies associated with Liquid Penetrant testing at Level I and Level II. This course adheres to the standards developed by the American Society for Nondestructive Testing (ASNT). Laboratory work will parallel lecture materials from the classroom.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

NDT 101 Magnetic Particle Testing

Course Standard

Course Information

Description	In this course students will master the competencies associated with the Magnetic Particle Testing method at Level I and Level II. This course adheres to the standards developed by the American Society for Nondestructive Testing (ASNT). Laboratory work will parallel lecture materials from the classroom.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

NDT 102 Radiation Safety

Course Standard

Course Information

Description	In this course students will master the competencies associated with Radiation Safety. This course adheres to the standards developed by the American Society for Nondestructive Testing (ASNT), Nuclear Regulatory Commission, and the State of Kansas. Laboratory work will parallel lecture materials from the classroom.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

NDT 103 Radiographic Testing Level II

Course Standard

Course Information

Description	In this course students will master the competencies associated with Radiographic Testing at Level II. This course adheres to the standards developed by the American Society for Nondestructive Testing (ASNT). Laboratory work will parallel lecture materials from the classroom.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

NDT 106 Formulations and Calculations

Course Standard

Course Information

Description	Upon completion of this course, students will acquire a thorough comprehension of the formulas and calculations utilized in the realm of Magnetic Particle Inspections, Ultrasonic Inspections, Eddy Current Inspections and Radiography. Furthermore, they will be equipped with the skills necessary to effectively apply these formulas and calculations in practical situations.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	2

NDT 107 Radiographic Testing Level I

Course Standard

Course Information

Description	In this course students will master the competencies associated with Radiographic Testing at Level I. This course adheres to the standards developed by the American Society for Nondestructive Testing (ASNT). Laboratory work will parallel lecture materials from the classroom.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

NDT 110 Eddy Current Level I

Course Standard

Course Information

Description	In this course students will master the competencies associated with electromagnetic (Eddy Current) testing at Level I. This course adheres to the standards developed by the American Society for Nondestructive Testing (ASNT). Laboratory work will parallel lecture materials from the classroom.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

NDT 111 Eddy Current Level II

Course Standard

Course Information

Description	In this course students will master the competencies associated with electromagnetic (Eddy Current) testing at Level II. This course adheres to the standards developed by the American Society for Nondestructive Testing (ASNT). Laboratory work will parallel lecture materials from the classroom.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

NDT 112 Ultrasonic Testing Method Level I

Course Standard

Course Information

Alternate Title	Ultrasonic Test Method Lvl I
Description	In this course, students will master the competencies associated with Ultrasonic Testing Methods at Level I. This course adheres to the standards developed by the American Society for Nondestructive Testing (ASNT). Laboratory work will parallel lecture materials from the classroom.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

NDT 113 Ultrasonic Testing Method Level II

Course Standard

Course Information

Alternate Title	Ultrasonic Test Method Lvl II
Description	In this course, students will master the competencies associated with Ultrasonic Testing Methods at Level II. This course adheres to the standards developed by the American Society for Nondestructive Testing (ASNT). Laboratory work will parallel lecture materials from the classroom.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

NDT 114 Visual Inspection

Course Standard

Course Information

Description	In this course, students will master the competencies associated with Visual Inspection. This course adheres to the standards developed by the American Society for Nondestructive Testing (ASNT). Laboratory work will parallel lecture materials from the classroom.
Career Cluster	Manufacturing

Instructional Level	Associate of Applied Science
Total Credits	2

NDT 117 Assembly Overview for NDT

Course Standard

Course Information

Description	This course is designed to provide the NDT student with the basic overview of aircraft assembly including both composite and sheet metal assembly and inspection techniques.
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Career Cluster	Manufacturing
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Instructional Level	Associate of Applied Science
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Total Credits	3
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NDT 123 Advanced Ultrasonic Testing Methods

Course Standard

Course Information

Alternate Title	Adv Ultrasonic Testing Methods
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Description	This course will provide students with basic knowledge and skills to utilize specific ultrasonic testing techniques to include C-Scan, Phased Array, Bond Testing and Time of flight Diffraction in the manufacturing, aerospace, transportation, energy, and refinery environment. Students will learn to inspect and evaluate various materials including metallic welded components and composites. Students will understand the basic elements of each technique and will demonstrate this understanding through written and practical laboratory examinations.
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Career Cluster	Manufacturing
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Instructional Level	Associate of Applied Science
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Total Credits	5
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OPM 100 Lean Sigma

Course Standard

Course Information

Description	This course will teach students the basics of both Lean and Six Sigma and how these problem solving methodologies apply to manufacturing and service organizations. Students completing this course will be better prepared for real business world issues, and have the ability to apply these concepts and tools at a basic level.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

OPM 105 Operations Management for Organizational Success

Course Standard

Course Information

Alternate Title	Op Mgmt for Org Success
Description	Operations Management introduces and applies the components of the continuous improvement philosophy and process to the operations of organizations. The study of dynamic management involvement and the use of continuous evaluation tools are reviewed and applied. These include applied management techniques and statistical measures of business processes.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

OPM 110 Introduction to Supply Chain Management

Course Standard

Course Information

Alternate Title	Intro to Supply Chain Mgmt
Description	Supply Chain Management introduces the building blocks of Supply Chain Strategy and the relationship with SC corporate strategy. Defines the elements of Supply Chain Management, including the importance of collaboration and partnering in a competitive business environment. Discusses the need for measures to manage the business and how the financial aspects are affected by SCM. Discusses outsourcing and why companies outsource to remain competitive.
Career Cluster	Business Management and Administration

Instructional Level	Associate of Applied Science
Total Credits	3

OPM 115 Introduction to Project Management

Course Standard

Course Information

Alternate Title	Introduction to Project Mgmt
Description	This course focuses on a holistic approach to project management. The content deals with planning, scheduling, organizing, and controlling projects for example, product development, construction, information systems, new businesses, and special events. The course includes major topics of Strategy, Priorities, Organization, Project Tools, and Leadership. Primary class emphasis is on the project management process and tools. Project management is becoming more important in today's world. Mastery of key tools and concepts could give you a significant competitive advantage in the marketplace.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

ORI 100 On Deck at Tech

Course Standard

Course Information

Description	New Student Orientation will provide students with information related to academic and campus resources as well as student support services that will help them acclimate to the college environment and get the most out of their college experience. This course helps students become familiar with the college's academic expectations, available student supports, and institutional processes prior to the first day of class to achieve success in the first semester and beyond. Students are also able to make connections with their peers and learn the different ways to engage across campus to maximize their college experience.
Career Cluster	Education and Training
Instructional Level	Continuing Education

PCT 100 EKG for Healthcare Providers

Course Standard

Course Information

Description	Focuses on the specialized procedures associated with the cardiovascular system. Students will perform electrocardiograms. Course also serves as an introduction to basic dysrhythmias and the skills necessary to recognize normal from abnormal in an emergency. Specific attention is given to patient significance and possible early intervention for each dysrhythmias. EKG rhythm strips, and exercises are provided for student recognition and practice.
Career Cluster	Health Science
Instructional Level	Associate of Applied Science
Total Credits	4

PCT 110 Phlebotomy and Laboratory Procedures

Course Standard

Course Information

Alternate Title	Phlebotomy and Lab Procedures
Description	This course addresses the role and function of the professional in the clinical laboratory setting. Topics include safety, Clinical Laboratory Improvement Act of 1988 (CLIA-88) government regulations and quality assurance in the laboratory. Students learn concepts and perform procedures in the different departments of the laboratory, including specimen collection and performance of CLIA-88 low- and/or moderate-complexity testing. Students demonstrate competencies in a wide variety of techniques used to collect, process, and test specimens.
Career Cluster	Health Science
Instructional Level	Associate of Applied Science
Total Credits	4

PCT 130 Patient Care Concepts and Technical Skills

Course Standard

Course Information

Alternate Title	PCT Concepts and Tech Skills
Description	This course focuses on the primary knowledge and skills needed to become a patient care technician. Preparing graduates to work in all facets of healthcare through instruction of core healthcare topics and procedures. This course provides an overview of medical laws, ethics, communication, cultural consideration, working with diverse populations, patient rights, body structure and function, growth and development, medical terminology, and pharmacology. Technical skills teach safety, infection control, patient assessment, vital signs, charting and documentation, patient monitoring and reporting, patient hygiene, fluids and nutrition, elimination and respiration, and care of surgical patients. Plus, advanced skills for PCT's in specimen collection, electrocardiography interpretations, and special laboratory procedures.
Career Cluster	Health Science
Instructional Level	Technical Certificate
Total Credits	3

PDV 115 Work Ethics

Course Standard

Course Information

Description	Students study human relations and professional development that exists in today's rapidly changing world so that they become better prepared for living and working in a complex society. Topics include human relations, job acquisition, job retention, job advancement and professional image skills.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	2

PED 110 Lifetime Fitness

Course Standard

Course Information

Description	Exposes students to facts about and experiences in dealing with motor, physical, physiological, psychological and nutritional aspects of the human being and the responsibility to maintain fitness during a life span.
Career Cluster	Science, Technology, Engineering and Mathematics
Instructional Level	Associate of Applied Science
Total Credits	1

PED 120 Introduction to the Athletic Training Profession

Course Standard

Course Information

Alternate Title	Intro Athletic Training Prof
Description	This course covers introductory principles relating to the profession of athletic training. Students will study organizational and professional responsibilities, injury/illness prevention techniques, characteristics of sports injuries, immediate care, treatment/rehabilitation, and various sports injuries.
Total Credits	3

PHL 110 Ethics

Course Standard

Course Information

Description	A practical approach to recognizing, understanding and solving ethical problems confronting individuals in today's society. Basic concepts of applied ethical theories in moral philosophy and reasoning are examined using critical thinking and responsible decision-making skills.
Instructional Level	Associate of Applied Science
Total Credits	3

PHL 115 Logic

Course Standard

Course Information

Description	This course deals with the uses of logical concepts and techniques to evaluate and criticize reasoning. Studies some elementary systems of formal logic. Arguments evaluated are drawn from such diverse fields as law, science, politics, religion, and advertising.
Instructional Level	Associate of Applied Science
Total Credits	3

PHR 105 Negotiations And Relationship Management

Course Standard

Course Information

Alternate Title	Negotiations & Relations Mgmt
Description	This course is designed to help students understand the principles, strategies and tactics of effective negotiation and relationship management. Students will learn to identify and assess negotiation variables, develop an effective negotiation plan and implement various strategies and tactics to ethically resolve conflicts and interpersonal differences.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

PHS 110 Physical Science

Course Standard

Course Information

Description	A non-technical course intended for students who are majoring in fields other than science. The application of scientific knowledge to daily life activities is emphasized by examining the fundamental principles in physics, chemistry, geology and astronomy utilizing the scientific method.
Instructional Level	Associate of Applied Science
Total Credits	5

PHS 115 Introductory Astronomy

Course Standard

Course Information

Description Introduction to Astronomy topics include fundamental concepts (planetary, stellar, and lunar motion; gravitation; light and telescopes); solar system 1 (Earth, Moon, Mercury, Venus, and Mars); solar system 2 (Jupiter and satellites, Saturn and satellites, outer planets); stars (nature of stars, birth, evolution and death of stars, neutron stars, black holes); universe (galaxies, quasars, blazars, cosmology).

Total Credits 5

PHS 120 General Physics I

Course Standard

Course Information

Description Topics include mechanics — linear motion, rotational motion, force, work, energy, momentum and conservation principles; heat-temperature, ideal gas, energy as a form of energy, first law of thermodynamics, second law of thermodynamics and entropy; and wave motion — simple harmonic motion, elasticity and the wave equation. This class is designed for students who need five hours of physics without calculus.

Instructional Level Associate of Applied Science

Total Credits 5

PHS 125 General Physics II

Course Standard

Course Information

Description A continuation of PHS 120 General Physics I. Topics include electricity and magnetism, electric potential, current electric power, magnetic field and induction; optics nature of light and wave optics; and modern physics special relativity, atomic structure, quantum mechanics and radioactivity. This class is taught in the spring of the year

Instructional Level Associate of Applied Science

Total Credits 5

POL 101 American Government

Course Standard

Course Information

Description A general study of the development, structure and functions of the American National Government. Topics to be studied include an introduction to government, principles of constitutionalism and federalism, political parties and political behavior, the Presidency, congress, the judiciary and the federal bureaucracy, Of specific emphasis is an analysis of decision-making in government, public participation and influence in government as well as a study of specific problems concerning the operation of the federal government.

Career Cluster Government and Public Administration

Instructional Level Associate of Applied Science

Total Credits 3

PLT 104 Introduction to Aviation

Course Standard

Course Information

Description This course will expose the student to knowledge areas of emphasis pertaining to FAA regulations, accident reporting, chart usage, navigation, radio communications, weather, collision avoidance, aerodynamics, systems, weight and balance, stall awareness, aeronautical decision making, preflight and ground operations. Successful completion of this course will provide the student with all information necessary to successfully pass the required FAA written exam for Airplane Single Engine Land (ASEL) and be adequately prepared for the oral portion of the required practical test.

Career Cluster Transportation, Distribution and Logistics

Instructional Level Associate of Applied Science

Total Credits 3

PLT 112 Private Pilot Flight Lab

Course Standard

Course Information

Description	This course will enable the student to develop the knowledge and skills required to safely exercise the privileges and responsibilities of a Private Pilot and pass the Private Pilot Practical Flight Exam. Course content includes instruction in aerodynamics, aircraft systems, FAA regulations, U.S. Airspace System, weight and balance, aircraft performance, aviation weather, flight publications, radio navigation, cross-country planning and navigation, basic flight physiology, and flight safety.
Career Cluster	Transportation, Distribution and Logistics
Instructional Level	Associate of Applied Science
Total Credits	3

PLT 114 Private Pilot Rating Transfer Lab

Course Standard

Course Information

Description	Private Pilot Rating Transfer Lab is a course designed to facilitate students joining the WSU Tech Professional Pilot program who have previously received a Private Pilot rating. This lab is focused on ensuring that students meet the current standards outlined in the Airman Certification Standards (ACS) for Airplane Single Engine Land (ASEL).
Career Cluster	Transportation, Distribution and Logistics
Instructional Level	Associate of Applied Science
Total Credits	6

PLT 116 Aviation Weather

Course Standard

Course Information

Description	This course entails the study of weather hazards, meteorological flight planning, aviation weather equipment and human factors in weather flying safety. Elements of the atmosphere with emphasis on those processes that affect the global atmospheric circulation, and meteorology as it applies to the operation of aircraft with emphasis on observation of weather elements and interpretation of flight planning weather information will be emphasized.
Career Cluster	Transportation, Distribution and Logistics

Instructional Level	Associate of Applied Science
Total Credits	3

PLT 120 Instrument Regulations and Procedures

Course Standard

Course Information

Alternate Title	Instrument Regs and Procedures
Description	This course will provide the student with a detailed study of the regulations, procedures, publications, and weather considerations necessary for operating IFR in the national airspace system. Terminal and enroute procedures will be studied in detail. Successful completion of this course will provide the student with all information necessary to successfully pass the required FAA written exam and be adequately prepared for the oral portion of the practical test required.
Career Cluster	Transportation, Distribution and Logistics
Instructional Level	Associate of Applied Science
Total Credits	3

PLT 126 Aviation Standardization and Career Paths

Course Standard

Course Information

Description	This course will begin with a segment of standardization training for the PLT program including Cessna 172 systems, Operations Manual, and checklist standardization. Additionally, this course will include Professional Pilot program standardization to include the Operations Manual, Student Learning Outcomes, and Pilot Program Operations Manual. The second portion of the course will be an introductory look at Professional Pilot career paths, defining facets of the aviation industry and looking at opportunities for students as they graduate the program.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	2

PLT 128 Instrumental Flight Lab

Course Standard

Course Information

Description	This course will introduce the student to the skills required to fly the airplane solely by referencing the instruments in the panel. Performing the four basics of flight, timed turns, unusual attitude recovery, navigation by VOR and GPS, performing both precision and non-precision approaches, as well as planning and executing cross country flight will prepare the student to successfully meet the standards set forth by the FAA to earn the Instrument Rating.
Career Cluster	Transportation, Distribution and Logistics
Instructional Level	Associate of Applied Science
Total Credits	3

PLT 129 Part 61 Private Pilot and Instrument Rating Transfer Lab

Course Standard

Course Information

Alternate Title	Part 61 Private and Instrument
Description	Private Pilot and Instrument Rating Transfer Lab is a course designed to facilitate the transfer of both a private pilot rating and an instrument rating from other jurisdictions to the WSU Tech Professional Pilot program. This lab focuses on evaluating students according to the current standards outlined in the Airman Certification Standards (ACS) for Airplane Single Engine Land (ASEL) and Airman Certification Standards (ACS) Instrument Rating.
Career Cluster	Transportation, Distribution and Logistics
Instructional Level	Associate of Applied Science
Total Credits	12

PLT 130 Aerodynamics and Aircraft Performance

Course Standard

Course Information

Alternate Title	Aerodynamics and Aircraft Perf
Description	In this course students will learn principles of airplane aerodynamics and aircraft performance.

Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	2

PLT 132 Aviation Safety and Human Factors

Course Standard

Course Information

Alternate Title	Aviation Safety & Human Factor
Description	This course provides the student with a detailed introduction into aspects of aviation safety, aviation safety programs, risk management, and the associated components of pilot psychology, physiology, human factors, and accident review and investigation. This course also introduces the student to issues influencing human performance in the complex operational aviation environments. Theory and practical applications of cognitive processing, decision-making, interpersonal interaction and communication will be presented. This course also provides an introduction to design elements intended to optimize man-machine interaction.

Career Cluster	Transportation, Distribution and Logistics
Instructional Level	Associate of Applied Science
Total Credits	3

PLT 134 Aircraft Systems for Pilots

Course Standard

Course Information

Description	In this course students will learn the aircraft systems as they relate to reciprocating, turbine, and jet engines.
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Career Cluster	Transportation, Distribution and Logistics
Instructional Level	Associate of Applied Science
Total Credits	2

PLT 136 Crew Resource Management

Course Standard

Course Information

Description	This course will provide the student the opportunity to explore the many issues involved in Crew Resource Management. It will expose the student to issues involved with communication, situational awareness, pilot judgement, risk assessment and mitigation, and workload management. Students will practice various models of risk assessment and mitigation as well as learn how to properly utilize all available resources in order to conduct a safe and efficient flight both solo and as part of a crew.
Career Cluster	Transportation, Distribution and Logistics
Instructional Level	Associate of Applied Science
Total Credits	2

PLT 144 Introduction to Commercial Flight

Course Standard

Course Information

Alternate Title	Intro to Commercial Flight
Description	This course provides the student exposure to the aeronautical knowledge areas required by FAA regulations for a Commercial Pilot Certificate (ASEL). Successful completion of the course will provide the student with all information necessary to successfully pass the required FAA written exam and be adequately prepared for the oral portion of the practical test required.
Career Cluster	Transportation, Distribution and Logistics
Instructional Level	Associate of Applied Science
Total Credits	3

PLT 146 Air Traffic Control and Airspace

Course Standard

Course Information

Alternate Title	Air Traffic Control & Airspace
Description	This course is designed to provide students with the information about the Air Traffic Management and Control Systems (ATC) and the US National Airspace System which is critical to the success of Pilots.

Career Cluster	Transportation, Distribution and Logistics
Instructional Level	Associate of Applied Science
Total Credits	2

PLT 152 Commercial Flight Lab

Course Standard

Course Information

Description	This course will introduce the student to all commercial maneuvers and standards. The student will also build hours towards minimum time requirements required to successfully pass the Commercial Pilot Practical Exam.
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Career Cluster	Transportation, Distribution and Logistics
Instructional Level	Associate of Applied Science
Total Credits	3

PLT 154 Aviation Law and Regulations

Course Standard

Course Information

Description	In this course students will explore and apply the Federal Aviation Regulations, contained in Title 14 of the Code of Federal Regulations.
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Career Cluster	Transportation, Distribution and Logistics
Instructional Level	Associate of Applied Science
Total Credits	2

PLT 156 Multiengine Aircraft Operation

Course Standard

Course Information

Description	This course is designed to develop the knowledge and skills necessary to safely and proficiently exercise the privileges and responsibilities of a Commercial Pilot with a Multi-engine rating. Included are discussions concerning Aeronautical Decision Making of multi-engine aircraft systems, aerodynamics, Crew Resource Management, weight and balance, aircraft performance, and abnormal/emergency
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procedures. The course also includes a scenario - based introduction to U.S. Title 14 Code of Federal Regulations (CFR) governing common carriage commercial operations.

Career Cluster	Transportation, Distribution and Logistics
Instructional Level	Associate of Applied Science
Total Credits	1

PLT 160 Multiengine Flight Lab

Course Standard

Course Information

Description	This course provides the practical experience necessary for the student to demonstrate safe operation of a multi-engine aircraft, as well as demonstrate knowledge of best single engine rate of climb (Vyse) and Minimum Control Speed (Vmc). The student will learn how to determine engine failure, demonstrate aircraft control with a simulated engine failure, and perform Instrument approaches during simulated engine failure. The tasks in this course will prepare the student to successfully pass the Multi-Engine Airplane (AMEL) exam.
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Career Cluster	Transportation, Distribution and Logistics
Instructional Level	Associate of Applied Science
Total Credits	2

PLT 168 Certified Flight Instruction

Course Standard

Course Information

Description	Provides the student with a detailed study of the responsibilities and teaching concerns of a flight instructor. The course is divided into two major sections: fundamentals of teaching and learning, including effective teaching methods, learning process, consideration of flight training syllabi, effective evaluations, and flight instructor responsibilities; the second section is concerned with the analysis of the flight maneuvers involved with Private Pilot, Commercial Pilot and Flight Instructor Certificates.
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Career Cluster	Transportation, Distribution and Logistics
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Instructional Level	Associate of Applied Science
Total Credits	4

PLT 176 Certified Flight Instruction Lab

Course Standard

Course Information

Alternate Title	Certified Flight Instruct Lab
Description	This course will provide practical teaching experience for the student during flight as they demonstrate skills flying in the right seat, teaching and demonstrating all required flight maneuvers simultaneously to successfully pass the FAA Practical Exam for Certified Flight Instructor.
Career Cluster	Transportation, Distribution and Logistics
Instructional Level	Associate of Applied Science
Total Credits	2

PNA 101 IV Therapy for LPN's

Course Standard

Course Information

Description	Prepares LPNs to perform activities as defined in KAR 60-16-102(b). Presents knowledge, skills, and competencies in the administration of intravenous fluid therapy, which will qualify LPNs to perform this procedure safely.
Career Cluster	Health Science
Total Credits	3

PNA 105 Adult Learning Principles for Health Careers

Course Standard

Course Information

Description	This course will provide learners with basic adult learning principles utilized in teaching. The course is intended to meet the requirements from the Kansas
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Department for Aging & Disability Services for instructors to teach Nurse Aide courses, and would also be of benefit the novice in higher education.

Total Credits 2

PNR 010 Nursing Recitation

Course Standard

Course Information

Description Provides homework help and tutoring services and connects practical nurse students to a practical nurse instructor outside of general program class hours.

Career Cluster Health Science

Instructional Level Technical Certificate

PNR 119 KSPN Fundamentals of Pharmacology and Safe Medication Administration

Course Standard

Course Information

Alternate Title KSPN Pharm and Safe Med Admin

Description This course provides an introduction to the principles of pharmacology. Emphasis is placed on nursing care related to the safe calculation and administration of medications to clients across the lifespan.

Career Cluster Health Science

Instructional Level Associate of Applied Science

Total Credits 2

PNR 120 KSPN Foundations of Nursing

Course Standard

Course Information

Description This course provides an introduction to practical nursing and roles of the practical nurse as well as profession- and client-related care concepts. Emphasis is placed on the knowledge and skills needed to provide safe, quality care. The theoretical foundation for basic data collection and nursing skills is presented and an

introduction to the nursing process provides the student with a framework for decision making.

Career Cluster	Health Science
Instructional Level	Associate of Applied Science
Total Credits	4

PNR 121 KSPN Foundations of Nursing Clinical

Course Standard

Course Information

Alternate Title	KSPN Foundations Nrsng Clin
Description	This course provides an introduction to the skills required to practice nursing. The theoretical foundation for basic data collection and nursing skills is presented and the student is given an opportunity to demonstrate these skills in a clinical laboratory setting. Students are also given an opportunity to practice application of the nursing process to client-related situations.

Career Cluster	Health Science
Instructional Level	Associate of Applied Science
Total Credits	2

PNR 128 KSPN Nursing Care of Adults I

Course Standard

Course Information

Description	This course focuses on the care of adult clients experiencing common medical/surgical health alterations with predictable outcomes. Emphasis is placed on the care of clients with alterations in cardiac output and tissue perfusion, oxygenation, regulation and metabolism, and integument. Principles of pre-and post-operative care and IV therapy are also addressed.
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Career Cluster	Health Science
Instructional Level	Associate of Applied Science
Total Credits	5

PNR 129 KSPN Nursing Care of Adults I Clinical

Course Standard

Course Information

Alternate Title	KSPN Care of Adults I Clinical
Description	This course focuses on the care of adult clients with common medical/surgical health alterations. The clinical laboratory experience gives students the opportunity to apply theoretical concepts from Nursing Care of Adults I and implement safe client care in selected settings.
Career Cluster	Health Science
Instructional Level	Associate of Applied Science
Total Credits	3

PNR 130 KSPN Maternal Child Nursing

Course Standard

Course Information

Description	This course provides an integrative, family-centered approach to the care of childbearing women, newborns, and children. Emphasis is placed on the care of the pregnant woman and newborn, normal growth and development, and common pediatric disorders.
Career Cluster	Health Science
Instructional Level	Associate of Applied Science
Total Credits	2

PNR 131 KSPN Maternal Child Nursing Clinical

Course Standard

Course Information

Alternate Title	KSPN Mtrnl Child Nrs Clinical
Description	This course provides an integrative, family-centered approach to the care of childbearing women, newborns, and children. Students are given the opportunity to observe the uncomplicated birth process and practice postpartum care as well as care of the newborn in the clinical laboratory setting. Common pediatric diseases and the growth and development process is the focus of child-related clinical laboratory experiences.

Career Cluster	Health Science
Instructional Level	Associate of Applied Science
Total Credits	1

PNR 135 KSPN Mental Health Nursing

Course Standard

Course Information

Description	This course explores basic concepts and trends in mental health nursing. Therapeutic modalities and client behavior management are discussed. Emphasis is placed on using the nursing process and meeting the basic human needs of the client with a mental health disorder.
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Career Cluster	Health Science
Instructional Level	Associate of Applied Science
Total Credits	2

PNR 136 Transition to Nursing

Course Standard

Course Information

Description	This course is designed to provide skills to enhance the success of the practical nurse student. It will include study and test-taking skills, time and stress management, goal setting, social and cultural awareness skills, written communication, an introduction to critical thinking and the nursing process, APA format, review of PN policies and procedures, and learning in a hybrid/online format.
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Career Cluster	Health Science
Instructional Level	Associate of Applied Science
Total Credits	2

PNR 138 KSPN Nursing Care of Adults II

Course Standard

Course Information

Description	This course focuses on the care of adult clients experiencing common medical/surgical health alterations with predictable outcomes. Emphasis is placed on the care of clients with alterations in cognition and sensation, mobility, elimination, immunity and hematology, and reproduction. Principles related to emergency preparedness are also addressed.
Career Cluster	Health Science
Instructional Level	Associate of Applied Science
Total Credits	5

PNR 139 KSPN Nursing Care of Adults II Clinical

Course Standard

Course Information

Alternate Title	KSPN Care of Adults II Clin
Description	This course focuses on the care of adult clients with common medical/surgical health problems. The clinical laboratory experience provides the student an opportunity to build on the theoretical concepts from Nursing Care of Adults I and II and implement safe client care in selected settings. Students are given the opportunity to practice leadership skills while managing a caseload of clients.
Career Cluster	Health Science
Instructional Level	Associate of Applied Science
Total Credits	2

PNR 141 KSPN Care of Aging Adults

Course Standard

Course Information

Description	This course is designed to explore issues related to the aging adults. Course content addresses the impact of ageism, alterations in physiological and psychosocial functioning, and the role of the practical nurse in caring for older adult clients across a continuum of care.
Career Cluster	Health Science

Instructional Level	Associate of Applied Science
Total Credits	2

PNR 166 KSPN Leadership, Roles, and Issues

Course Standard

Course Information

Alternate Title	KSPN Leadership, Roles & Issue
Description	This course provides orientation to leadership roles of the LPN and related responsibilities. It will introduce issues to the student they will encounter in the workplace.
Career Cluster	Health Science
Instructional Level	Associate of Applied Science
Total Credits	2

PNR 170 Healthcare Practice Management

Course Standard

Course Information

Description	This course explores the overall perspective of health service organizations and the associated managerial role. The student will be able to utilize practical building blocks for managerial growth. The student will discuss the involvement of future roles for healthcare providers and outside forces that impact management of a healthcare component.
Career Cluster	Health Science
Instructional Level	Associate of Applied Science
Total Credits	3

PNR 175 Healthcare Management Research

Course Standard

Course Information

Description	This course explores management issues, funding and actual provision of healthcare by various entities. The student will research and discuss the role of
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management in healthcare. The student will complete projects that expand on specific areas of individual interest in administration and management.

Career Cluster	Health Science
Instructional Level	Associate of Applied Science
Total Credits	4

PNR 180 Healthcare Issues

Course Standard

Course Information

Description	This course explores current issues in healthcare and the impact of those issues on society. The student will discuss specific pieces of legislation, regulatory initiatives, public concern issues, funding and actual provision of healthcare by various entities. The student will complete projects that expand on specific areas of individual interest.
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Career Cluster	Health Science
Instructional Level	Associate of Applied Science
Total Credits	3

PSS 100 Six Sigma Yellow Belt

Course Standard

Course Information

Description	Six Sigma Yellow Belt training introduces the fundamentals of Six Sigma to individual process owners and operators who can then act as team members on Six Sigma projects. Not only do these Yellow Belts gain the skills necessary to identify, monitor and control profit-eating practices in their own processes, but they are also prepared to feed that information to Green Belts and Black Belts working on larger system projects.
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Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	1

PSS 101 Six Sigma Green Belt Methods

Course Standard

Course Information

Description	This course is designed to help the adult learner understand Six Sigma concepts and be able to apply their knowledge to a real problem. It also addresses the challenges of change management and data management.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

PSS 105 Six Sigma Green Belt Statistics

Course Standard

Course Information

Alternate Title	Six Sigma Green Belt Stats
Description	Students develop an in-depth understanding of how computers and statistical software are essential components in the business world and society in general for exploring data in depth, data simulation, screening data for errors, manipulating data, performing transformations, focus on the use of the computer and statistical software as a valuable productivity and data analysis tool.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

PSS 115 Six Sigma Black Belt Methods

Course Standard

Course Information

Description	The Six Sigma Black Belt Methods incorporates data and statistical analysis into a project based workflow that allows businesses to make intelligent decisions about where and how to incorporate improvements.
Career Cluster	Business Management and Administration

Instructional Level	Associate of Applied Science
Total Credits	3

PSS 120 Six Sigma Black Belt Experimentation & Transfer Function

Course Standard

Course Information

Alternate Title	Six Sig Black Belt Exp & Trans
Description	Students will learn how to manipulate data with statistical tools to transform it into valuable information (numeric and/or graphic). This data will be incorporated into a project.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

PST 010 Private Security Officer Training - Basic

Course Standard

Course Information

Alternate Title	PSOT Basic
Description	The Basic Private Security Officer Training (Basic PSOT) course is a 16 hour course designed to train Security Officers in basic duties and requirements of a security officer in compliance with the Wichita City Code.
Career Cluster	Law, Public Safety, Corrections and Security
Instructional Level	Continuing Education

PST 110 Private Security Officer Training - Basic

Course Standard

Course Information

Alternate Title	Private Security Officer-Basic
Description	The Basic Private Security Officer Training (Basic PSOT) course is a 45 hour course designed to train Security Officers in basic duties and requirements of a security officer in compliance with the Wichita City Code.
Career Cluster	Law, Public Safety, Corrections and Security
Instructional Level	Continuing Education
Total Credits	3

PSY 101 General Psychology

Course Standard

Course Information

Description	A general introduction to the scientific study of behavior and mental processes to enable students to apply the knowledge they gain about the history of psychology, psychological perspectives, biological bases of behavior, sensation and perception, learning, cognition, intelligence, motivation, development, personality, psychological disorders and treatments of disorders, social psychology and critical thinking skills to enhance the quality of his/her life as he/she interacts with others and the environment.
Instructional Level	Associate of Applied Science
Total Credits	3

PSY 110 Child Psychology

Course Standard

Course Information

Description	This course is a scientific study of child behavior and development from the prenatal period through adolescence. This includes special emphasis in topics of physical development, cognitive and language development, social-emotional development and attachment, socialization, and practical applications of discipline and child rearing.
Total Credits	3

PSY 120 Developmental Psychology

Course Standard

Course Information

Description	A study of individual development from conception through death to enable students to apply the knowledge they gain about the general areas of biological, neurological, physical, cognitive, social, emotional and personality development at each stage of life to enhance more meaningful interactions with others and better understanding of his/herself.
Instructional Level	Associate of Applied Science
Total Credits	3

PSY 135 Social Science Prospectus

Course Standard

Course Information

Description	The social sciences provide various perspectives on how we view the behavior of individuals and society. The predominant research of individuals, families, and larger society is done through the scope of the social sciences, particularly psychology, geography, and sociology. In this class, students will examine the relevance of social science within historical and current issues, develop evidence-based questions about human behavior, and explore prevalent research approaches and their findings.
Total Credits	3

REL 101 New Testament

Course Standard

Course Information

Description	This course is an introduction to history, literature and culture that gave rise to the New Testament from an objective and analytical approach.
Instructional Level	Associate of Applied Science
Total Credits	3

REL 130 World Religions

Course Standard

Course Information

Description	This course provides students an overview of the major world religions, prepares students to identify the differences and similarities between the major tenants of these religions, and helps students develop an appreciation and understanding of religious diversity.
Career Cluster	Education and Training
Instructional Level	Associate of Applied Science
Total Credits	3

ROB 100 Introduction to Robotics

Course Standard

Course Information

Description	This course explores basic robotic concepts. Studies robots in typical application environments. Topics include: robot history and fundamentals, robot classification, power sources, robot applications in the workplace, robot control techniques, path control, end of arm tooling, robot operation and robot controllers, controller architecture in a system, robotic language programming, and human interface issues.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

ROB 103 Applied Robotics Lab I

Course Standard

Course Information

Description	In this course students will learn basic robotic applications and devices utilized in automated systems. Using hands on step by step approach students will program different types of robots and interface the robots and controllers within parameters defined by the instructor and the application.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science

ROB 104 Robotics Simulation

Course Standard

Course Information

Description	This course provides the student an introduction to robotic simulation using industry current software. Students will learn to build computer simulated models of robotic work cells.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	2

ROB 106 Robotics Controller Maintenance

Course Standard

Course Information

Alternate Title	Robotics Controller Maint
Description	This course will provide the student with basic skills and techniques used in the maintenance and repair of robotic/automated equipment.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	1

ROB 115 Introduction to Programming Robots in ROS

Course Standard

Course Information

Alternate Title	Intro to Programming Robots
Description	In this course students will become familiar with the basic programming languages used in Robotics; Python, Linux, and C++. Students will practice programming and applying different programs in the Robot Operating System (ROS) to help Robots move and interpret reference frames. The course will conclude with students applying their knowledge of the programming languages to the design and simulation of a robot.

Total Credits 4

ROB 118 Basic Circuits

Course Standard

Course Information

Description	This course introduces direct current (DC) concepts and applications and the theory and application of varying sense wave voltages and current. Topics include: electrical principles and laws; batteries; DC test equipment; series, parallel and simple combination circuits; magnetism, AC wave generation, AC test equipment, inductance, capacitance, and basic transformers, and laboratory procedures and safety practices.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

ROB 120 IoT Fundamentals: Introduction to the Internet of Things

Course Standard

Course Information

Alternate Title	IoT: Internet of Things
Description	In this course, students learn about Internet of Things and how it enables Digital Transformation along with emerging technologies such as data analytics, artificial intelligence, and the increased attention on cybersecurity. Students will also understand the basics of Intent Based Networking that uses software-driven approach and machine learning to be able to connect and secure new devices with ease.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

ROB 124 Robotic Navigation

Course Standard

Course Information

Description	In this course, students will learn how to properly navigate robots using ROS. Navigation allows mobile robots to move around autonomously and an essential element in multiple industrial fields including warehousing, commercial, consumer, and entertainment. Students will learn the key components of ROS Navigation and how to use it in robot projects.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	2

ROB 128 Basic PLC

Course Standard

Course Information

Description	This course introduces operational theory, systems terminology, PLC installations, and programming procedures for programmable logic controls. Emphasis is placed on PLC programming, connections, installations, and start-up procedures. Topics include: PLC hardware and software, PLC functions and terminology, PLC installation and set up, PLC programming basics, relay logic instructions, timers and counters, connecting field devices to I/O cards, and PLC safety procedures.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

ROB 130 IoT Fundamentals: Connected Things

Course Standard

Course Information

Alternate Title	IoT: Connected Things
Description	This course will prepare students with the technical and soft skills needed to ideate, design, prototype, and present the business value of an end-to-end IoT solution. The typical end-to-end solution will include sensors and actuators, gateways, wired and wireless network connections and cloud services.
Career Cluster	Manufacturing

Instructional Level	Associate of Applied Science
Total Credits	3

ROB 134 Robotic Perception and Manipulation

Course Standard

Course Information

Alternate Title	Robotic Perception & Manipulat
Description	In this course, students will learn and become competent in the concepts necessary to get a robot to perceive and manipulate objects in their environment. This course teaches students how to utilize ROS Industrial to achieve these goals in various settings.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	4

ROB 138 Advanced PLC

Course Standard

Course Information

Description	This course examines types, installation and troubleshooting of programmable logic controllers (PLC). Hardware and programming aspects, as well as ladder logic symbols and operations necessary to develop a PLC program are covered in this course.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

ROB 140 IoT Fundamentals: Big Data Analytics

Course Standard

Course Information

Alternate Title	IoT: Big Data Analytics
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Description	This course will continue to expand your skills in all aspects of IoT, focusing mainly on data analytics and Big Data Systems. It includes extensive hands-on labs to practice data acquisition from sensors and video cameras, data visualization and an introduction to Machine Learning. This path enhances the communication skills and business acumen of the students by teaching storytelling with data. It introduces the students to the field of Big Data engineering platforms. The capacity to leverage the data analytics in the IoT Solutions is strategically important for value creation and requires the development of specific data analysis skills that are extremely valuable in the market.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

ROB 144 Machine Learning for Robotics

Course Standard

Course Information

Description	In this course students will utilize Machine Learning to get robots to recognize images, be trained on randomly simulated environments, achieve level 3 autonomy, and operationalize a robot on the CUDA platform.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

ROB 145 Applied Robotics Lab II

Course Standard

Course Information

Description	In this course students will expand on their experiences from Applied Robotics Lab II. Students will further enhance the robotic applications and integration of PLC's and PC's to robot controllers.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	2

ROB 148 PLC Systems Design and Simulation

Course Standard

Course Information

Alternate Title	PLC System Design & Simulation
Description	This course provides a more advanced study of PLC's in manufacturing including Distributed Control Systems (DCS), Supervisory Control and Data Acquisition Systems (SCADA), and advanced programming languages.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

ROB 150 IoT Fundamentals: Security

Course Standard

Course Information

Description	The explosive growth of connected IoT devices enables the digitization of industries, but also increases the exposure to security threats. Upon completion students will be able to perform vulnerability and risk assessments, and research and recommend risk mitigation strategies for common security threats in IoT systems.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

ROB 155 Advanced Industrial Workcell Programming

Course Standard

Course Information

Alternate Title	Advanced Industrial Workcell
Description	This course explores the fundamentals of work-cell integration and programming. The topics include integration of machine elements, motion control programming, and industrial control networks.

Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

ROB 170 Robotics Internship

Course Standard

Course Information

Description	The internship represents an educational strategy linking the classroom with the acquisition of knowledge in the workplace. Through direct observation, reflection and evaluation, students gain an insight into the internship site’s work, mission, and audience, how these relate to their academic study, as well as the organization’s position in the broader industry or field. Students will produce a critical reflection on their internship experience demonstrating how they have addressed specific learning goals.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

ROB 172 Robotics Capstone

Course Standard

Course Information

Description	In this project-based course, students will apply the skills and knowledge acquired throughout the Digital Marketing program to a real-world project. In partnership with a local non-profit organization, students will create a digital marketing strategy designed to meet the customer needs. Students will produce a critical reflection on their capstone experience demonstrating how they have addressed specific learning goals. A successful project will include a project presentation to representatives of the non-profit organization, faculty and fellow students.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

SAF 101 Safety Orientation/OSHA 10

Course Standard

Course Information

Description	This course provides a fundamental understanding of OSHA Safety for the Construction Industry. Students who successfully complete the course will be issued a Department of Labor (DOL) 10 hour card.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	1

SAF 110 OSHA 510

Course Standard

Course Information

Description	This course covers OSHA standards, policies, and procedures in the construction industry. Topics include scope and application of the OSHA Construction Standards, construction safety and health principles, and special emphasis on those areas in construction which are most hazardous.
Total Credits	2

SAF 130 OSHA 503 Update for General Industry Trainers

Course Standard

Course Information

Alternate Title	OSHA 503 Update Gen Industry
Description	This course is designed for Outreach Training Program trainers who have completed the OSHA 501 Trainer Course in Occupational Safety and Health Standards for General Industry and who are authorized trainers in the OSHA Outreach Training Program. The course provides students with updates on OSHA General Industry Standards and policy and regulations while offering opportunities to develop effective facilitation skills teaching the 10 and 30 hour General Industry Program classes. The OSHA 501 Trainer Course in Standard for the General Industry must be completed before taking this course.
Career Cluster	Manufacturing
Instructional Level	Continuing Education
Total Credits	1

SGT 101 Introduction to Surgical Technology

Course Standard

Course Information

Alternate Title	Intro to Surgical Technology
Description	This course introduces the role and functions of proper documentation, post and pre-operative case management, professional and self-management, professionalism, and work place management, scope of practice, patient care standards, death and dying issues, legal and ethics dilemma, risk management and safety, basic computer skills and electricity concepts.
Career Cluster	Health Science
Instructional Level	Associate of Applied Science
Total Credits	4

SGT 107 Pharmacology for Surgical Technology

Course Standard

Course Information

Alternate Title	Pharmacology for Surgical Tech
Description	This course will provide general pharmacologic information, including how medications are measured, what kind of medications are used, what laws pertain to them, how they are labeled, how they are administered to the surgical patient, and an understanding of preoperative and intraoperative anesthesia as it relates to routine and emergency situations.
Career Cluster	Health Science
Instructional Level	Associate of Applied Science
Total Credits	3

SGT 115 Surgical Procedures I

Course Standard

Course Information

Description	Coordinates study of theoretical and practical applications of various surgical procedures. Emphasis is placed on pathology, a methodical approach to surgical procedures and preparation and application of aseptic techniques with extensive
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laboratory experience to develop critical skills that are required to function in the operating room environment.

Career Cluster	Health Science
Instructional Level	Associate of Applied Science
Total Credits	5

SGT 119 Surgical Technology - Clinical Experience I

Course Standard

Course Information

Alternate Title	Surg Tech-Clinic Experience I
Description	Coordinates study of theoretical and practical applications of various surgical procedures. Emphasis is placed on pathology, a methodical approach to surgical procedures and preparation and application of aseptic techniques with extensive laboratory experience to develop critical skills that are required to function in the operating room environment.

Career Cluster	Health Science
Instructional Level	Associate of Applied Science
Total Credits	6

SGT 120 Principles and Practices in Surgical Technology

Course Standard

Course Information

Alternate Title	Prin & Prac in Surg Tech
Description	Presents concepts necessary to prepare students for clinical experience. Aseptic technique and supplies and equipment are major components of this course.

Career Cluster	Health Science
Instructional Level	Associate of Applied Science
Total Credits	5

SGT 125 Surgical Procedures II

Course Standard

Course Information

Description	Coordinates study of theoretical and practical applications of various surgical procedures. Emphasis is placed on pathology, a methodical approach to surgical procedures and preparation and application of aseptic techniques with extensive laboratory experience to develop critical skills that are required to function in the operating room environment.
Career Cluster	Health Science
Instructional Level	Associate of Applied Science
Total Credits	5

SGT 129 Surgical Technology - Clinical Experience II

Course Standard

Course Information

Alternate Title	Surg Tech Clinic Experience II
Description	Students are assigned to supervised, non-remunerative clinical practice in hospital operating rooms approximately 24-27 hours per week. Emphasis is placed on basic and intermediate surgical interventions. Includes rotations through endoscopy and pre-operative holding units
Career Cluster	Health Science
Instructional Level	Associate of Applied Science
Total Credits	7

SGT 140 Principles and Practices in Surgical Technology Lab

Course Standard

Course Information

Alternate Title	Prin & Pract Surg Tech Lab
Description	Students will demonstrate concepts necessary to prepare students for clinical experience. Aseptic technique and supplies and equipment are major components of this course.
Career Cluster	Health Science

Instructional Level	Associate of Applied Science
Total Credits	3

SGT 145 ST Certification Review

Course Standard

Course Information

Description	This course provides a comprehensive review of surgical technology concepts and practical preparation for the national certification examination
Career Cluster	Health Science
Instructional Level	Associate of Applied Science
Total Credits	1

SOC 101 Principles of Sociology

Course Standard

Course Information

Description	An introductory study of human society to acquaint students with the influence and patterns of individual and group interaction by exploring the development, characteristics, and functioning of human groups; the relationships between groups, and group influences on individual behavior.
Instructional Level	Associate of Applied Science
Total Credits	3

SOC 115 Social Problems

Course Standard

Course Information

Description	This course will examine the major problems of contemporary society, the social causes, potential solutions, and impact on public policy utilizing sociological theories and perspectives. Students will acquire an understanding of unique issues such as, inequality, crime, deviance, violence, substance abuse, and problems within socialization institutions.
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Instructional Level Associate of Applied Science
Total Credits 3

SPH 101 Public Speaking

Course Standard

Course Information

Alternate Title Public Speaking
Description Covers fundamental basics to all good private and public speaking experiences and elements in voice production and improvement, bodily movement, confidence, poise and understanding of all types of public speeches. Required of all transfer curricula.

Instructional Level Associate of Applied Science
Total Credits 3

SPH 111 Interpersonal Communication

Course Standard

Course Information

Description Improves individual communication skills. By understanding the elements of effective communication, students are able to create environments that bring out the best in themselves and others. In addition, students learn how to better turn ideas and feelings into words, how to listen more effectively, respond more appropriately to what others have said and, most important of all, how to maintain and develop good interpersonal relationships with their families, their peers and fellow workers. Emphasis is placed on small-group activities, interviewing skills and verbal and non-verbal communication.

Instructional Level Associate of Applied Science
Total Credits 3

THR 100 Theatre Appreciation

Course Standard

Course Information

Description	Upon completion of this class, the student will know the origin of theater, as well as the major historical periods of theatrical development including Greek, Medieval and Shakespearian. Students will acquire a basic understanding of different aspects of theater and play production, including an awareness of technical theater, designing for the stage, dramatic literature and structure. The student will become familiar with what constitutes quality acting and playwriting.
Instructional Level	Associate of Applied Science
Total Credits	3

TAS 105 Orientation to the Transportation Industry

Course Standard

Course Information

Description	This foundational course provides students with a comprehensive introduction to the dynamic and diverse world of the transportation industry.
Career Cluster	Transportation, Distribution and Logistics
Instructional Level	Associate of Applied Science
Total Credits	1

TAS 121 Engine Repair

Course Standard

Course Information

Description	This course contains competencies that can be used in their entirety within a single course or as needed for courses designed by a Kansas institution as Institutional Flexible Credit. Through a variety of learning and assessment activities students can: explore the theory and operation of internal combustion engine; demonstrate the ability to remove an automotive engine; demonstrate the ability to install an automotive engine; demonstrate the basic ability to inspect and repair cylinder head, valve trains and timing defects; demonstrate the ability to disassemble short block; demonstrate the ability to inspect short block; demonstrate the ability to repair short block; demonstrate the ability to reassemble short block; demonstrate the basic ability to inspect and repair engine lubrication; demonstrate the basic ability to inspect and repair engine
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cooling systems; inspect a cylinder head and valve train; repair a cylinder head and valve train; perform advanced level engine diagnosis.

Career Cluster	Transportation, Distribution and Logistics
Instructional Level	Associate of Applied Science
Total Credits	4

TAS 124 Electrical I

Course Standard

Course Information

Description	In this course students will: Complete service work orders; describe the relationship between voltage, ohms and amperage; perform basic electrical circuit repairs; identify electrical system faults; identify basic wiring diagram symbols, components, and legend information; perform basic electrical circuit measurements using a DVOM; describe basic circuit characteristics of series, parallel and series parallel circuits through a variety of classroom and shop learning and assessment activities.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

TAS 125 Electrical II

Course Standard

Course Information

Description	In this course students will: Perform battery diagnosis; perform battery service; perform starting system diagnosis; perform starting system repair.
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Instructional Level	Associate of Applied Science
Total Credits	3

TAS 126 Manual Transmission/Transaxle & Drive Train

Course Standard

Course Information

Alternate Title	Manual Trans/Transaxle Drive
Description	This course contains competencies that can be used in their entirety within a single course or as needed for courses designed by a Kansas institution as Institutional Flexible Credit. Through a variety of learning and assessment activities students can: determine the general drive train diagnosis procedures; explore the fundamentals of clutch operation; explore the fundamentals of clutch removal, inspection and repair; determine the powerflow of the manual transmission and transaxle; perform fundamental manual transmission and transaxle inspection and repair according to service specifications; perform fundamental differential inspection and repair according to service specifications; perform fundamental diagnosis, inspection and replacement of drive axle shafts and supporting components; perform fundamental diagnosis, inspection, adjustment and repair of four- and all-wheel drive components; diagnose drive train issues; diagnose clutch concerns; perform the removal, inspection and/or repair of the clutch and its components; conduct a transmission and transaxle inspection and repair according to service specifications; conduct a differential inspection and repair according to service specifications; conduct the diagnosis, inspection and replacement of drive axle shafts and supporting components; conduct the diagnosis, inspection, adjustment and repair of four- and all-wheel drive components.
Career Cluster	Transportation, Distribution and Logistics
Instructional Level	Associate of Applied Science
Total Credits	4

TAS 127 Automatic Transmission Repair

Course Standard

Course Information

Description	This course contains competencies that can be used in their entirety within a single course or as needed for courses designed by a Kansas institution as Institutional Flexible Credit. Through a variety of learning and assessment activities students can: explore the concept of theory and operation of automatic transmissions/transaxles; perform maintenance on an automatic transmission/transaxle; perform service on an automatic transmission/transaxle; diagnose automatic transmission/transaxles; inspect automatic transmission/transaxles; remove and reinstall automatic transmission; remove and reinstall automatic transaxles; disassemble automatic transmission and components; disassemble automatic transaxles and components; inspect automatic transmission components; inspect automatic transaxles and components; repair automatic transmission and components; repair automatic transaxles and components; reassemble automatic transmission and components; reassemble automatic transaxles and components.
Career Cluster	Transportation, Distribution and Logistics

Instructional Level Associate of Applied Science

Total Credits 4

TAS 128 Heating & Air Conditioning

Course Standard

Course Information

Description This course contains competencies that can be used in their entirety within a single course or as needed for courses designed by a Kansas institution as Institutional Flexible Credit. Through a variety of learning and assessment activities students can: explore the fundamentals of automotive HVAC operations and environmental concerns, identify the appropriate refrigerant recovery and recycling guidelines; service refrigerant, recycling and handling systems; document fundamental heating and air conditioning system concerns; perform fundamental diagnostics of A/C systems; perform fundamental diagnostics of refrigeration systems components; perform fundamental repairs of refrigeration systems components; perform fundamental diagnostics of heating, ventilation, and engine cooling systems; perform fundamental repairs of heating, ventilation, and engine cooling systems; perform fundamental diagnostics of operating systems and related controls; perform fundamental repairs of operating systems and related controls; perform complex diagnostics of A/C Systems; document complex heating and air conditioning system concerns; perform complex diagnostics of refrigeration system components; perform complex repairs of refrigeration system components; perform complex diagnostics of heating, ventilation, and engine cooling systems.

Career Cluster Transportation, Distribution and Logistics

Instructional Level Associate of Applied Science

Total Credits 4

TAS 131 Engine Performance I

Course Standard

Course Information

Description In this learning plan students will: complete work order and check history; identify engine mechanical integrity; explore the fundamentals of fuel system theory; identify fuel system concerns; explore the fundamentals of ignition theory; identify ignition system concerns; identify induction system concerns; identify exhaust system concerns; identify engine mechanical integrity through a variety of learning and assessment activities.

Career Cluster	Transportation, Distribution and Logistics
Instructional Level	Associate of Applied Science
Total Credits	3

TAS 132 Engine Performance II

Course Standard

Course Information

Description	This course contains competencies that can be used in their entirety within a single course or as needed for courses designed by a Kansas institution as Institutional Flexible Credit. Through a variety of learning and assessment activities students can: analyze engine mechanical integrity; analyze fuel system concerns; analyze ignition system concerns; analyze induction system concerns; analyze exhaust system concerns; service fuel system concerns; repair fuel system concerns; service ignition system concerns; repair ignition system concerns; service induction system concerns; service exhaust system concerns; repair induction system concerns; repair exhaust system concerns.
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Career Cluster	Transportation, Distribution and Logistics
Instructional Level	Associate of Applied Science
Total Credits	3

TAS 133 Brakes I

Course Standard

Course Information

Description	This course is a thorough and detailed study of brake system theory and functional operation and principles of hydraulic systems as it applies to braking system operation. Practical applications of all phases of brake work including complete system service of disc and drum brake systems, parking brake systems, power assist devices and machining of brake disc and drum.
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Career Cluster:	Transportation, Distribution and Logistics
Instructional Level:	Associate of Applied Science
Total Credits	3

TAS 134 Brakes II for Automotive

Course Standard

Course Information

Description In this course students will: Determine necessary brake system correction; Conduct system pressure tests utilizing service specifications; Perform diagnosis and correction for poor stopping, pulling or dragging concerns caused by malfunctions in the hydraulic system; Conduct inspection, fabrication and/or replacement of brake lines and hoses; Diagnose poor stopping noise vibration, pulling, grabbing, dragging or pedal pulsation concerns; Perform service specifications pertaining to the removal, cleaning and refinishing procedures on brake drums; Perform drum brake repair and replacement procedures; Diagnose poor stopping noise vibration, pulling, grabbing, dragging or pedal pulsation concerns; Perform disc brake repair and replacement procedures; Machine rotor according to service specifications; Perform caliper piston retraction where applicable; Inspect and test power assist systems; Determine necessary action on wheel bearing noise, wheel shimmy and vibration concern diagnoses; Perform the removal, inspection and replacement of bearing and hub assemblies through a variety of classroom and lab/shop learning and assessment activities.

Instructional Level Associate of Applied Science

Total Credits 1

TAS 135 Computer Systems for Automotive

Course Standard

Course Information

Description In this course students will: Perform automotive computer system diagnosis; perform vehicle communication diagnosis; perform engine computer system diagnosis; transmission computer diagnosis; perform air bag system diagnosis; perform heating and air conditioning electronic diagnosing; perform electronic anti-lock brake/traction/stability diagnosis; perform driver assistance system diagnosis; identify computer systems through a variety of learning and assessment activities.

Career Cluster Transportation, Distribution and Logistics

Instructional Level Associate of Applied Science

Total Credits 3

TAS 136 Suspension and Steering I

Course Standard

Course Information

Description In this course students will: document fundamental suspension system concerns; perform fundamental diagnostics of steering systems; perform fundamental repairs of steering systems; perform fundamental diagnostics of suspension systems; perform fundamental repairs of suspension systems; determine the need for wheel alignment and adjustment; perform fundamental diagnostics of wheel and tire systems; perform fundamental repairs of wheel and tire systems through a variety of learning and assessment activities.

Instructional Level Associate of Applied Science

Total Credits 3

TAS 137 Suspension and Steering II

Course Standard

Course Information

Description In this, course students will: gain knowledge in the use of alignment geometry and computerized alignment equipment to diagnose and repair steering suspension problems and to verify that a vehicle's suspension and steering components are within manufacturer's specifications. In addition, removing and replacing steering and suspension components according to manufacturer's specifications, inspecting, servicing, and repairing wheel and tire assemblies for optimum performance.

Instructional Level Associate of Applied Science

Total Credits 2

TAS 150 O.E.M. Certification

Course Standard

Course Information

Description This course is an online, self-paced course to allow students to acquire O.E.M. certification. In this course, students will choose one of the O.E.M. training options provided and utilize their chosen O.E.M.'s learning management system to complete modules required to achieve their certification.

Career Cluster Transportation, Distribution and Logistics

Instructional Level Associate of Applied Science

Total Credits 2

TAS 160 Transportation Industry Safety

Course Standard

Course Information

Description In today's dynamic transportation landscape, safety remains a paramount concern. This course is tailored to provide a comprehensive understanding of safety measures and protocols to meet all ASE and governmental standards.

Career Cluster Transportation, Distribution and Logistics

Instructional Level Associate of Applied Science

Total Credits 1

TAS 206 PowerTrain Systems

Course Standard

Course Information

Description This course contains competencies that can be used in their entirety within a single course or as needed for courses designed by a Kansas institution as Institutional Flexible Credit. Through a variety of learning and assessment activities students can: determine the general drive train diagnosis procedures; explore the fundamentals of clutch operation; explore the fundamentals of clutch removal, inspection and repair; determine the powerflow of the manual transmission and transaxle; perform fundamental manual transmission and transaxle inspection and repair according to service specifications; perform fundamental differential inspection and repair according to service specifications; perform fundamental diagnosis, inspection and replacement of drive axle shafts and supporting components; perform fundamental diagnosis, inspection, adjustment and repair of four- and all-wheel drive components; diagnose drive train issues; diagnose clutch concerns; perform the removal, inspection and/or repair of the clutch and its components; conduct a transmission and transaxle inspection and repair according to service specifications; conduct a differential inspection and repair according to service specifications; conduct the diagnosis, inspection and replacement of drive axle shafts and supporting components; conduct the diagnosis, inspection, adjustment and repair of four- and all-wheel drive components.

Career Cluster Transportation, Distribution and Logistics

Instructional Level Associate of Applied Science

Total Credits 4

TAS 225 Electrical III

Course Standard

Course Information

Description	In this course students will: perform charging system diagnosis; perform charging system repair; identify current flow on starting and charging system diagrams through a variety of learning and assessment activities.
Career Cluster	Transportation, Distribution and Logistics
Instructional Level	Associate of Applied Science
Total Credits	2

TFF 108 Welding Safety & Orientation

Course Standard

Course Information

Description	The primary purpose of this course is to introduce and familiarize new students with the use and safety precautions to consider when using welding related equipment. The equipment in WSU Tech's welding lab compares to what is currently used by Industry. This course will enable a person who has never before used the equipment to set up and use it in an appropriate manner at an entry level and, doing so, meet safety standards. A separate safety exam will be given at the end of demonstrating the use and hazards it presents. Before students can use any piece of equipment on their own, they have to attain a score of 100% on the safety exam. Equipment in the lab that is excluded from the safety training may only be used under direct supervision of an instructor who is within an arm's length away.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	1

TFF 110 Tap and Die

Course Standard

Course Information

Description	This course provides knowledge and technical skills on taps and dies. Topics include 60 degree thread form, common fastener thread series and markings on taps. The student will learn the process of hand tapping, the process of repairing a thread with a threading die and the process of installing a threaded insert.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	1

TFF 112 Print Reading

Course Standard

Course Information

Description	Student will learn to identify basic lines, views, and abbreviations used in blueprints, interpret basic 2 D sketches using orthographic projections and blueprints, determine dimensions of features of simple parts, sketch simple parts with dimensional measurements, determine dimensions of a multi-feature part, interpret GDT symbols, frames and datums.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

TFF 114 Introduction to CAD I

Course Standard

Course Information

Description	This course introduces computer-aided drafting (CAD) and examines the hardware that makes up a CAD workstation. It also covers the operating system (Microsoft Windows) that enables the equipment to function as a unit. The course shows how to use AutoCAD to set up drawings and construct lines, circles, arcs, other shapes, geometric constructions, and text. Students will use display and editing techniques as well to obtain information about their drawings and work with drawing files. This course also introduces recommended drafting standards for students to use for properly preparing drawings with AutoCAD. This course also examines dimensioning, blocks and attributes, section views, isometric drawings, multiview layouts, annotative objects, external references, and sheet sets. Students will learn how to use AutoCAD to dimension drawings, create section lines and graphic patterns, design symbols and attributes for multiple use, and create sheet sets. Student drawings will be plotted or printed. This course
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also covers recommended drafting standards and practices for students to use for properly preparing drawings with AutoCAD.

Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

TFF 115 Hand and Power Tools for Aerospace Tooling

Course Standard

Course Information

Alternate Title	Hand and Power Tools
Description	This course provides technical knowledge on hand power tools used by a toolmaker in the aerospace industry. The student will learn about die grinders, disco grinders and magnetic drills.

Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	1

TFF 117 Precision Measuring

Course Standard

Course Information

Description	This course is designed to assist multiple technical training disciplines with the proper operation, calibration, and measuring technique's required for utilizing precision measurement equipment effectively. Both SAE and metric measuring instruments will be covered; including steel rules, feeler gauges, precision straight edge, calipers, inside and outside micrometers, angle measurement, small hole gauges, telescoping gauges and dial indicators.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	2

TFF 118 Welding Applications

Course Standard

Course Information

Description	In this course student will learn the basic elements of SMAW, GMAW and GTAW. Additionally, students learn the equipment, processes and skills associated with welding cutting equipment.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	4

TFF 120 Metrology

Course Standard

Course Information

Description	Students will learn the proper operation, field verification, and measuring techniques utilized in precision machining, manufacturing, and tooling in this course. The course will also expose the student to software applications used in the industry. Measuring instruments will be covered in Primary standards, Flexible Measuring Instruments, Support and Layout, Height Measuring Tools, and Laser Tracking and Romer Arm usage and software.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	4

TFF 125 Tooling Capstone

Course Standard

Course Information

Description	This course provides the specific technical knowledge and skills necessary to utilize hand and power tools to create a drill jig. This course emphasizes the importance of critical features, the process of permanent assembly and the role of toolmakers in the manufacturing environment.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	4

TFF 130 Machining I

Course Standard

Course Information

Description	Students will learn to conduct job hazard analysis for conventional mills and lathes, develop math skills for machine tool operations, perform preventive maintenance and housekeeping on conventional mills and lathes, select work holding devices for mills, lathes and other machine tools, calculate feeds and speeds, remove material using milling and turning processes, align milling head, use a vertical mill to center drill, drill and ream holes, change tools and tool holders on milling machines, and maintain saws and grinders.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

TFF 135 Direct & Alternating Current

Course Standard

Course Information

Description	This course introduces direct current (DC) concepts and applications and the theory and application of varying sense wave voltages and current. Topics include: electrical principles and laws; batteries; DC test equipment; series, parallel and simple combination circuits; magnetism, AC wave generation, AC test equipment, inductance, capacitance, and basic transformers, and laboratory procedures and safety practices.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	4

TFF 140 Machining II

Course Standard

Course Information

Description	Students learn to perform basic trigonometric functions, and perform other procedures such as I.D. boring and facing operations, planning a sequence for machining operations, aligning work pieces, use work holding devices, jigs and fixtures, performing threading operations on lathes, machining keyways on a vertical mill, inspecting and dressing grinding wheels, performing O.D. & I.D. threading operations, performing O.D. & I.D. tapering operations, machining parts using milling cutters and milling machines, and tapping holes on a vertical mill.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

TFF 150 Fixture Construction

Course Standard

Course Information

Description	In this course, students will have the opportunity to link classroom/lab theory with an experimental learning opportunity. Through direct observation, reflection and evaluation, students gain an insight into the internship site's work, mission, and audience, how these relate to their academic study, as well as the organization's position in the broader industry or field. Students will produce a critical reflection on their internship experience demonstrating how they have addressed specific learning goals.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	5

TFF 155 Tooling and Fixture Fabrication Capstone

Course Standard

Course Information

Alternate Title	Tool and Fixture Fab Capstone
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Description	In this project-based course, students will apply the skills and knowledge acquired throughout the Tooling Fixture Fabrication program to a real-world project. In partnership with industry, students will fabricate a tooling fixture designed to meet the customer needs. Students will produce a critical reflection on their capstone experience demonstrating how they have addressed specific learning goals. A successful project will include a project presentation to faculty and fellow students.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	5

UAS 105 Fundamentals of Drone Technology

Course Standard

Course Information

Alternate Title	Fundamentals of Drone Tech
Description	This course will provide an introduction into the world of Unmanned Aerial Vehicles and systems which support UAVs. Students will gain an understanding of the necessary knowledge and skills to become a drone certified pilot as well as the necessary items to successfully complete a drone task safely.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	2

UAS 110 AC/DC

Course Standard

Course Information

Description	This course introduces direct current (DC) concepts and applications and the theory and application of varying sense wave voltages and current. Topics include electrical principles and laws; batteries; DC test equipment; series, parallel and simple combination circuits; magnetism, AC wave generation, AC test equipment, inductance, capacitance, basic transformers, and laboratory procedures and safety practices.
Career Cluster	Manufacturing

Instructional Level	Associate of Applied Science
Total Credits	4

UAS 115 Ground School

Course Standard

Course Information

Description	The course will enable the student to demonstrate the knowledge required by CFR 61.105 (b). Knowledge areas of emphasis are FAA regulations, accident reporting, chart usage, navigation, radio communications, weather, collision avoidance, aerodynamics, systems, weight and balance, stall awareness, aeronautical decision making, preflight and ground operations.
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Career Cluster	Manufacturing
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Instructional Level	Associate of Applied Science
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Total Credits	3
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UAS 120 Communication/Navigation

Course Standard

Course Information

Description	The course provides an understanding of the capabilities and limitations of UAS technology to include the hardware and software inclusions and gain a holistic view of concerns facing UAS integration into the National Airspace.
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Career Cluster	Manufacturing
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Instructional Level	Associate of Applied Science
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Total Credits	3
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UAS 125 GIS I

Course Standard

Course Information

Description	In this course, students will gain understanding of GIS concepts with vector and raster data models. Students will then move into geospatial data acquisition, editing the data, and appropriate management of the data. Students will then learn to display geospatial data and begin basic exploration of geospatial data. Students
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will practice these skills with real world data sets and challenges located throughout the course.

Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

UAS 130 MultiRotor I

Course Standard

Course Information

Description	The course objective is to understand how unmanned aircraft are used to accomplish a variety of tasks in a complex environment and how remote pilots apply UAS technology for commercial, scientific, and governmental purposes while respecting both the physical and regulatory limitations. Additionally, this course creates a foundation for the concept of professionalism and ethics as they apply to remote pilots.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

UAS 135 Flight Planning

Course Standard

Course Information

Description	In this course, students will practice planning and executing several case studies involving UAS. Flight plans, FAA filing, maintenance logs, data collection, data processing, and final product presentation will be prepared for each case study. Case studies will be pulled from Agriculture, Transportation, Insurance, Marketing, and Public Utilities/Planning.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	2

UAS 140 MultiRotor II

Course Standard

Course Information

Description	The course objective is to understand the limits and skills employed by professional remote pilots in trapping and mitigating errors and analyzing human error and management skills used to detect and stop errors during the day-to-day execution of remote pilot tasks. Additionally, this course explores the concepts of decision-making bias, stress, and methods for safely identifying and mitigating risk while making time critical decisions.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

UAS 145 GIS II

Course Standard

Course Information

Description	This course continues developing students' skills using GIS but focuses more on the analysis and use of GIS. Students will analyze both vector and raster data, map and analyze terrain, watershed analysis, spatial interpolation, geocoding and dynamic segmentation, network analysis, and build/develop GIS models.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

UAS 150 Photogrammetry

Course Standard

Course Information

Description	Understand the fundamentals of digital photogrammetry. Be able to relate ground and image coordinates mathematically. Be able to rectify and orthorectify a frame image to a reference coordinate system. Understand and carry out a task to build a 3D model from stereo images. Appreciate other related photogrammetric algorithms, operations, and products.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

UAS 155 Sensor Packages

Course Standard

Course Information

Description	This course gives students a more in-depth look into the theory, operation, and application of standard and cutting-edge sensors for UAS platforms. Students will work through several case studies and practice choosing appropriate sensors, integrating them into a UAS platform, executing the mission, and producing value-added products for that particular customer.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	4

UAS 160 Design and Programming

Course Standard

Course Information

Description	The mission influences the design of any UAS system it is to complete. To correctly choose a platform to accomplish the mission most effectively, students must understand UAS Airframe, UAS Powerplants, UAS Electrical system, and UAS Sensor Systems. This course will help students understand each of these variables' design parameters and provide opportunities to design and build UAS platforms based on different missions.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	4

UAS 165 FixedWing UAS Flight

Course Standard

Course Information

Description	In this course, students learn how fixed-wing, unmanned aircraft accomplish various tasks in a complex environment and how remote pilots apply UAS technology for commercial, scientific, and governmental purposes while respecting both the physical and regulatory limitations. Additionally, this course creates opportunities for students to practice flying fixed-wing UAS to accomplish missions across various industry fields.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

UAS 173 UAS Capstone

Course Standard

Course Information

Description	In this project-based course, students will apply the skills and knowledge acquired throughout the Drone Technology program to a real-world UAS project. Industry application areas will include Agriculture, Reconnaissance/Emergency Response, Industrial Inspections, Remote Sensing Applications and more. Students will produce a critical reflection on their capstone experience demonstrating how they have addressed specific learning goals. A successful project will include a project presentation to representatives of industry, faculty and fellow students.
Career Cluster	Marketing
Instructional Level	Associate of Applied Science
Total Credits	4

UAS 180 Ground School

Course Standard

Course Information

Description	Ground school is a structured course designed to help students prepare for the Part 107 test (UAG). The primary focus is on providing the necessary knowledge required to pass the exam. Topics covered include airspace, weather, regulations, airport operations, and various other aspects. Through this course, students will gain the information needed to approach the Part 107 test with confidence and competence.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	4

UAS 185 Multi-Rotor Flight

Course Standard

Course Information

Description	The Multi-Rotor Flight course is designed to familiarize students with the manual operation of quadcopter-style aircraft. Mastering basic flight maneuvers is fundamental to developing proficiency as a pilot and establishing a secure flying environment. Through hands-on training and practical exercises, students will gain the skills necessary to confidently control multi-rotor systems and ensure safe flight operations.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	4

UAS 190 Videography

Course Standard

Course Information

Description	UAS Videography is designed to enhance our students' proficiency in pre-visualizing aerial shots, capturing high-quality video footage, and crafting refined final projects. Through the utilization of cutting-edge drone technology, this course offers students the ability to create unique projects to add to their portfolio. Furthermore, it provides a strong foundation in video editing skills that can be seamlessly applied across a diverse range of industries. UAS Videography represents a thriving and evolving market, offering abundant prospects for exploration and career advancement.
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Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	4

UAS 220 UAS Multi-Rotor Maintenance

Course Standard

Course Information

Description	The Multi-Rotor Maintenance course provides a foundational understanding of DC electronics, soldering techniques, multi-rotor components, and the assembly of quadcopters. Geared towards beginners and enthusiasts, this course offers a practical exploration of the essential skills required for maintaining and constructing multi-rotor aerial vehicles.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	6

UAS 225 Post-Processing

Course Standard

Course Information

Description	The post-processing phase is a pivotal aspect of drone operation, capable of defining the success or failure of a project. Acquire fundamental skills in converting photos into actionable data, primed and ready for delivery to your clients.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

UAS 235 UAS Small Business Fundamentals

Course Standard

Course Information

Alternate Title	Small Business Fundamentals
Description	Covering quoting, planning, execution, post-processing, and final product delivery, this class provides a pragmatic experience simulating the role of a small business owner. Explore the practical aspects of delivering a service to clients with a focus on quality.
Career Cluster	Manufacturing

Instructional Level Associate of Applied Science

Total Credits 3

UAS 240 Multi-Rotor Instructor

Course Standard

Course Information

Description Transitioning from student to instructor, it's now your turn to impart the proper techniques and practices for safely operating a multi-rotor. This class delves into the concepts behind the Fundamentals of Instructing (FOI) and provides hands-on practice in the real world, guiding your own students through the learning process. Remember, as the saying goes, 'the best way to become an expert on a topic is to teach it!

Career Cluster Manufacturing

Instructional Level Associate of Applied Science

Total Credits 6

UAS 250 Advanced Post-Processing

Course Standard

Course Information

Description In the domain of advanced drone operations, mastery of the intricate post-processing phase emerges as a critical factor, wielding the nuanced capability to decisively shape the trajectory of a project. Cultivate a refined expertise in the sophisticated craft of transmuting captured imagery into meticulously processed, actionable data, meticulously primed for seamless delivery to discerning clients. This advanced-level course delves into the intricacies and cutting-edge methodologies of post-processing, ensuring the acquisition of highly specialized skills requisite for navigating the dynamic terrain of advanced drone technology.

Career Cluster Manufacturing

Instructional Level Associate of Applied Science

Total Credits 6

UAS 255 Advanced Payloads

Course Standard

Course Information

Description	Delve into the complexities of LiDAR, Thermal, and Multispectral payloads, examining how these advanced technologies might shape the future landscape of drone technology.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

UAS 260 Fixed-Wing Construction

Course Standard

Course Information

Description	Assembling a fixed-wing UAS proves to be a satisfying experience, with each step—from cutting and gluing to soldering parts—demanding meticulous attention to detail. The focus on precision throughout the process ensures the creation of a well-crafted, finished product, ready to take flight.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

UAS 265 Fixed-Wing UAS Flight

Course Standard

Course Information

Description	Embark on the world of flying fixed-wing drones in this class. Operating a constantly moving aircraft doesn't have to be an overwhelming experience. Develop proficiency in basic maneuvers and emergency procedures, setting the stage to become a competent fixed-wing pilot.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	3

UAS 273 Capstone

Course Standard

Course Information

Description	Utilize the culmination of your UAS knowledge in this capstone class, crafting a project that effectively encapsulates all you've learned. Develop a compelling project to showcase to friends, family, and, notably, future employers. This course provides the opportunity to apply and demonstrate the depth of your UAS expertise, leaving a lasting impression through a finely executed and comprehensive project.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	4

UAS 275 Internship

Course Standard

Course Information

Description	Translate your UAS skills into real-world workplace experience. In this course, seamlessly integrate an internship with your college program, earning both valuable credits and practical knowledge. Maximize the opportunity to gain hands-on experience and financial compensation, establishing a bridge between academic learning and professional application.
Career Cluster	Manufacturing
Instructional Level	Associate of Applied Science
Total Credits	4

VET 101 Introduction to Veterinary Nursing

Course Standard

Course Information

Alternate Title	Intro to Veterinary Nursing
Description	This course will introduce learners to the field of veterinary medicine, focusing on the specific roles and responsibilities of the veterinary nurse. Learners will be

introduced to the historical aspects of veterinary medicine and the duties of the nurse including ethics, common animal breeds, safety, and first aid. This course also introduces the basic principles of nursing care, including clear and compassionate communication with owners. This course also gives a basic overview of medical terminology, anatomy/physiology and pathology. It will also introduce the basic principles of animal science, specifically as they relate to the role of a veterinary nurse.

Career Cluster	Health Science
Instructional Level	Associate of Applied Science
Total Credits	3

VET 102 Introduction to Veterinary Assisting/Animal Science

Course Standard

Course Information

Alternate Title	Intro Vet Assisting/Animal Sci
Description	This course will introduce learners to the field of veterinary medicine and animal science, focusing on the specific roles and responsibilities of the veterinary assistant. Learners will be introduced to the basic principles of animal handling and care, common animal breeds, safety in the veterinary setting and first aid. This course also gives an overview of veterinary medical terminology.

Career Cluster	Health Science
Instructional Level	Associate of Applied Science
Total Credits	1

VET 103 Introduction to Veterinary Nursing Part 2

Course Standard

Course Information

Alternate Title	Intro to Veterinary Nursing
Description	Intro to Veterinary Nursing: This course is designed for students who have completed VET 102 Introduction to Veterinary Assisting/Animal Science and have been accepted into the Veterinary Nursing program. This course will introduce learners to the field of veterinary medicine, focusing on specific roles and responsibilities of the veterinary technician. Students will be introduced to the historical aspects of veterinary medicine and the duties of the technician including ethics. This course introduces the basic principles of nursing care, including clear and compassionate communication with owners. This course also gives a basic

overview of medical terminology, anatomy/physiology, and pathology. It will introduce the basic principles of animal science, specifically as they relate to the role of the veterinary technician.

Career Cluster	Health Science
Instructional Level	Associate of Applied Science
Total Credits	2

VET 105 Veterinary Business Procedures/Office Management

Course Standard

Course Information

Alternate Title	Vet Business Proc/Office Mgmt
Description	This course will introduce learners to the expectations of veterinary nurses including: veterinary medical records, admitting procedures, and record maintenance via hands on experiences. It will cover basic bookkeeping skills, inventory control measures, marketing, scheduling, interpersonal communication, phone etiquette, professionalism, working with difficult owners/animals, and the use of computer software specifically designed for use in veterinary clinics and hospitals.

Career Cluster	Health Science
Instructional Level	Associate of Applied Science
Total Credits	2

VET 107 Veterinary Business Procedures/Office Management Part 2

Course Standard

Course Information

Alternate Title	Vet Business Proc/Office Mgmt
Description	This course is designed for students who have completed VET 106 Veterinary Practice Management and have been accepted into the Veterinary Nursing program. This course will introduce learners to the expectations of veterinary technicians including veterinary medical records, admitting procedures, and record maintenance via hands-on experience. It will cover basic bookkeeping skills, inventory control measures, marketing, scheduling interpersonal communication, phone etiquette, professionalism, working with difficult owners and animals, and

the use of computer software specifically designed for use in veterinary clinics and hospitals.

Career Cluster	Health Science
Instructional Level	Associate of Applied Science
Total Credits	1

VET 110 Veterinary Anatomy and Physiology

Course Standard

Course Information

Alternate Title	Vet Anatomy and Physiology
Description	This course will introduce veterinary medical terminology, including prefix, suffix, root words, common medical terms, and a basic knowledge of word construction. This course will relate the relevant medical terminology to the structure and function of animal bodies and the anatomical/physiological differences between selected species. Learners will examine body organization, cellular biology, histology, and gross anatomy/physiology of the integumentary, skeletal, muscular, endocrine, reproductive, cardiovascular, lymphatic, digestive, respiratory, urinary, and nervous systems. Lab will include the use of skeletons, models, virtual anatomy tools, and dissection of cadavers.

Career Cluster	Health Science
Instructional Level	Associate of Applied Science
Total Credits	4

VET 115 Veterinary Clinical Pathology I

Course Standard

Course Information

Alternate Title	Vet Clinical Pathology I
Description	This course is the first of a three course series and will introduce basic pathological processes and prepare the learner for the next course in the sequence. This course builds upon veterinary pharmacology and introduces clinical microbiology and cytology as it relates to veterinary nursing and animal pathology. It covers the basic principles of microbial classification, growth, and pathogenicity as well as various laboratory methods used in identification of microorganisms as they relate to pathology and parasitology in animals.

Career Cluster	Health Science
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Instructional Level Associate of Applied Science

Total Credits 3

VET 116 Laboratory and Diagnostic Skills

Course Standard

Course Information

Alternate Title Lab and Diagnostic Skills

Description This course will expose the learner to basic veterinary laboratory techniques including sample collection and testing. The student will also be exposed to the safety measures employed in radiology. The student will gain hands on experience with animal handling in the lab and radiology setting.

Career Cluster Health Science

Instructional Level Associate of Applied Science

Total Credits 1

VET 117 Veterinary Clinical Pathology I Part 2

Course Standard

Course Information

Alternate Title Vet Clinical Pathology I

Description This course is designed for students who have completed VET 116 Laboratory and Diagnostic Skills and have been accepted into the Veterinary Nursing program. This course is the first of a three-course series and will introduce basic pathological processes and prepare the learner for the next course in the sequence. This course builds upon veterinary pharmacology and introduces clinical microbiology and cytology as it relates to veterinary technology and animal pathology. It covers the basic principles of microbial classification, growth, and pathogenicity as well as various laboratory methods used in identification of microorganisms as they relate to pathology and parasitology in animals.

Career Cluster Health Science

Instructional Level Associate of Applied Science

Total Credits 2

VET 120 Veterinary Nursing Procedures I

Course Standard

Course Information

Alternate Title	Vet Nursing Procedures I
Description	This course is the first of a two course series and will explore animal nutrition, patient assessment, animal therapeutics, animal husbandry, animal restraint, animal behavior and common dental problems and dental prophylaxis. Learners will get hands on experience in the collection of various diagnostic samples and preparation for collection.
Career Cluster	Health Science
Instructional Level	Associate of Applied Science
Total Credits	3

VET 121 Veterinary Assisting I

Course Standard

Course Information

Description	This course is the first of a two course series and will explore veterinary anatomy, common diseases of small animals, zoonoses, and nutrition. The learner will get hands on experience in animal handling and restraint and basic grooming techniques for small animals.
Career Cluster	Health Science
Instructional Level	Associate of Applied Science
Total Credits	2

VET 122 Veterinary Nursing Procedures I Part 2

Course Standard

Course Information

Alternate Title	Vet Nursing Procedures I
Description	This course is designed for students who have completed VET 121 Veterinary Assisting I and have been accepted into the Veterinary Nursing program. This course is the first of a two course series and will explore animal nutrition, patient assessment, animal therapeutics, animal husbandry, animal restraint, animal behavior and common dental problems and the prophylactic procedure for teeth cleaning. Learners will get hands-on experience in the collection of various diagnostic samples and preparation for collection.

Career Cluster	Health Science
Instructional Level	Associate of Applied Science
Total Credits	2

VET 130 Veterinary Emergency, Critical Medicine and Hospital Procedures

Course Standard

Course Information

Alternate Title	Vet Emergency, Critical Medic
Description	This course will cover emergency and critical care nursing skills and hospital procedures in Veterinary Medicine. Topics will focus on companion animal care, but will include large animal, laboratory animal, and exotic animal care as it relates to the veterinary nurse.

Career Cluster	Health Science
Instructional Level	Associate of Applied Science
Total Credits	2

VET 140 Veterinary Pharmacology

Course Standard

Course Information

Description	This course will explore pharmacological principles, including pharmacokinetics drug classes, indications, dosage, preparation, mechanisms of action, and side effects of drugs used in veterinary medicine.
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Career Cluster	Health Science
Instructional Level	Associate of Applied Science
Total Credits	2

VET 141 Veterinary Assisting II

Course Standard

Course Information

Description	This course is the second in a two course series and will continue to explore and cover exam room procedures, pharmacology, euthanasia and surgical assisting. The learner will gain hands on experience in animal handling and restraint as well as basic medication administration.
Career Cluster	Health Science
Instructional Level	Associate of Applied Science
Total Credits	1

VET 142 Veterinary Pharmacology Part 2

Course Standard

Course Information

Description	This course is designed for students who have completed VET 141 Veterinary Assisting II and have been accepted into the Veterinary Nursing program. This course will explore pharmacological principles, including pharmacokinetics, drug classes, indications, dosages, preparation, mechanisms of action, and side effect of drugs used in veterinary medicine.
Career Cluster	Health Science
Instructional Level	Associate of Applied Science
Total Credits	1

VET 200 Veterinary Professional Wellness

Course Standard

Course Information

Description	This course will explore well-being strategies including physical, emotional, financial and mental health. This course will discuss topics of advocating for technicians, nutrition, exercising, financial wellness, Not One More Vet and self-harm/ suicide.
Career Cluster	Health Science
Instructional Level	Associate of Applied Science
Total Credits	2

VET 215 Veterinary Clinical Pathology II

Course Standard

Course Information

Alternate Title	Vet Clinical Pathology II
Description	This course is the second of a three course series and will continue to build upon pathological processes and prepare the learner for the next course in the sequence. This course will explore the life cycles, modes of transmissions, and pathological consequences associated with common parasites of animals. Laboratory techniques of hematology, serum chemistry, urinalysis and fecal sample collection will be covered. This course also explores special commercial laboratory test procedures and pathological processes. Lab will introduce diagnostic procedures and cover identification of parasites and various pathologies using prepared slides and collected specimens. Additionally, postmortem examination procedures and proper submission of tissue samples for pathologic diagnosis are introduced.
Career Cluster	Health Science
Instructional Level	Associate of Applied Science
Total Credits	3

VET 220 Veterinary Nursing Procedures II

Course Standard

Course Information

Alternate Title	Vet Nursing Procedures II
Description	This course is the second of a two course series and will continue to explore and cover advanced techniques in animal nutrition, patient assessment, animal therapeutics, animal husbandry, animal restraint, animal behavior and common dental problems and dental prophylaxis focused on companion animals. Learners will get hands on experience in the collection of various diagnostic samples and preparation for collection with a focus on companion animals.
Career Cluster	Health Science
Instructional Level	Associate of Applied Science
Total Credits	2

VET 230 Veterinary Diagnostic Imaging with Lab

Course Standard

Course Information

Alternate Title	Vet Diagnostic Imaging w/Lab
Description	Covers the physics of x-ray photon production, radiation safety, quality control measures, federal and state radiation regulations, film processing, radiographic technique evaluation, positioning of animals, and proper identification and storage of radiographic images. Covers the operation and use of fixed, portable, and dental x-ray machines; the care and development of films; radiographic positioning of animals; and evaluation of radiographic technique. Explores additional diagnostic imaging modalities, such as ultrasound, MRI, CT, and endoscopy.
Career Cluster	Health Science
Instructional Level	Associate of Applied Science
Total Credits	3

VET 240 Veterinary Anesthesia and Surgical Assisting

Course Standard

Course Information

Alternate Title	Vet Anesthesia & Surg Assist
Description	This course will explore the principles and practices of veterinary anesthesia and surgical assistance including pre-operative, operative, and post-operative protocols for routine surgical procedures. Learners will be provided with hands-on experience in anesthesiology, surgical patient preparation and surgical assistance.
Career Cluster	Health Science
Instructional Level	Associate of Applied Science
Total Credits	3

VET 250 Veterinary Nursing: Large Animal Disease and Medical Care

Course Standard

Course Information

Alternate Title	Large Animal Disease/Med Care
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Description This course will explore common large animal breeds (ruminant, equine, swine, and chickens). It will introduce techniques necessary for the provision of nursing care to large animals, including restraint, husbandry, behavior, physical examination, medication administration, diagnostic sample collection, grooming, bandaging, nutrition, and vaccination. It will also cover preventive medicine and diseases of large animals including the public health significance of relevant large animal diseases and examine the role of the veterinary nurse in performing diagnostics, nursing care, and client education.

Career Cluster Health Science

Instructional Level Associate of Applied Science

Total Credits 2

VET 260 Veterinary Clinical Pathology III

Course Standard

Course Information

Alternate Title Vet Clinical Pathology III

Description This course is the third of a three course series and will bring together knowledge of pathological processes gained from the first two courses in the sequence and relate them to every day practice in veterinary medicine with an emphasis on companion animal practice. This course will continue to explore the life cycles, modes of transmissions, and pathological consequences associated with common parasites of animals. It will also continue discussion of microbiology and cytology as they relate to the veterinary technician. It will explore physical injuries, resulting pathologies and treatments. Additionally, this course will explore environmental and nutritional concepts as they relate to various pathologies with an emphasis in this relation to small/companion animals. Lastly, this course will reinforce the issue of zoonosis and safety on the job with The Occupational Safety and Health Administration (OSHA) protocols.

Career Cluster Health Science

Instructional Level Associate of Applied Science

Total Credits 3

VET 265 Veterinary Nursing Procedures: Avian, Exotic and Lab Animals Disease and Medical Care

Course Standard

Course Information

Alternate Title	Avian, Exotic & Lab Animals
Description	Introduces basic techniques necessary for the provision of nursing care to small animals, including small animal restraint, husbandry, behavior, physical examination, medication administration, vaccination, and grooming. Includes kennel duty experience in the care of a variety of companion animals. Provides an overview of the anatomy and physiology, the care and handling, and diseases of common laboratory and exotic small animals. Covers the principles of lab animal use in research with an emphasis on animal welfare. This course also covers preventive medicine and diseases of small animals including the public health significance of relevant small animal diseases. Examines the role of the veterinary nurse in performing diagnostics, nursing care, and client education. Reinforce staff/owner relationships with role playing scenarios.
Career Cluster	Health Science
Instructional Level	Associate of Applied Science
Total Credits	2

VET 270 Veterinary Nursing Seminar

Course Standard

Course Information

Description	This course will serve to reinforce knowledge and concepts covered in the other courses in the program. This course will prepare students for the Veterinary Technician National Exam (VTNE) and help them to become ready to work in the field of Veterinary Nursing.
Career Cluster	Health Science
Instructional Level	Associate of Applied Science
Total Credits	1

VET 275 Veterinary Clinical Practicum

Course Standard

Course Information

Description	This course provides hands-on experience working with actual animal cases in a clinical veterinary setting. This course will expand student knowledge and build proficiency of acquired skills through task-specific exercises learned prior in the curriculum. It also links prior on-campus coursework with off-campus learning experiences providing development of increased proficiency and honing of
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essential skills learned in the formal instructional setting which are necessary for a career as a veterinary technician. Students will be matched to practicum sites at the discretion of the instructor. Each student is expected to attend a minimum of 240 hours at extern sites. These hours can be completed at two locations (120 hours at each site). The practicum will be monitored and reviewed by the program director or the director's appointee.

Career Cluster	Health Science
Instructional Level	Associate of Applied Science
Total Credits	6

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

ACC 105 Fundamentals of Accounting

Course Standard

Course Information

Description	This is a course designed for students who want a working knowledge of accounting, but not to the extent as a person working primarily in the accounting field. Although the basic accounting principles are learned and applied, the course, in comparison to Principles of Accounting I, covers a smaller amount of material at a somewhat slower pace. It is recommended for students with no previous accounting background.
Instructional Level	Associate of Applied Science
Total Credits	3

ACC 130 Managerial Accounting

Course Standard

Course Information

Description	This course studies management tools for business decision making, including study of the evaluation of financial condition and performance of business. Emphasis is given to the process of formulating and utilizing sound accounting data to evaluate alternatives involved in managerial decision-making necessary for planning, execution, and control of a business enterprise.
Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

ACC 105 Fundamentals of Accounting

Course Standard

Course Information

Description	This is a course designed for students who want a working knowledge of accounting, but not to the extent as a person working primarily in the accounting field. Although the basic accounting principles are learned and applied, the course, in comparison to Principles of Accounting I, covers a smaller amount of material at a somewhat slower pace. It is recommended for students with no previous accounting background.
Instructional Level	Associate of Applied Science
Total Credits	3

ACC 130 Managerial Accounting

Course Standard

Course Information

Description	This course studies management tools for business decision making, including study of the evaluation of financial condition and performance of business. Emphasis is given to the process of formulating and utilizing sound accounting data to evaluate alternatives involved in managerial decision-making necessary for planning, execution, and control of a business enterprise.
Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

ACC 105 Fundamentals of Accounting

Course Standard

Course Information

Description	This is a course designed for students who want a working knowledge of accounting, but not to the extent as a person working primarily in the accounting field. Although the basic accounting principles are learned and applied, the course, in comparison to Principles of Accounting I, covers a smaller amount of material at a somewhat slower pace. It is recommended for students with no previous accounting background.
Instructional Level	Associate of Applied Science
Total Credits	3

ACC 130 Managerial Accounting

Course Standard

Course Information

Description	This course studies management tools for business decision making, including study of the evaluation of financial condition and performance of business. Emphasis is given to the process of formulating and utilizing sound accounting data to evaluate alternatives involved in managerial decision-making necessary for planning, execution, and control of a business enterprise.
Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

ACC 105 Fundamentals of Accounting

Course Standard

Course Information

Description	This is a course designed for students who want a working knowledge of accounting, but not to the extent as a person working primarily in the accounting field. Although the basic accounting principles are learned and applied, the course, in comparison to Principles of Accounting I, covers a smaller amount of material at a somewhat slower pace. It is recommended for students with no previous accounting background.
Instructional Level	Associate of Applied Science
Total Credits	3

ACC 130 Managerial Accounting

Course Standard

Course Information

Description	This course studies management tools for business decision making, including study of the evaluation of financial condition and performance of business. Emphasis is given to the process of formulating and utilizing sound accounting data to evaluate alternatives involved in managerial decision-making necessary for planning, execution, and control of a business enterprise.
Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

ACC 105 Fundamentals of Accounting

Course Standard

Course Information

Description	This is a course designed for students who want a working knowledge of accounting, but not to the extent as a person working primarily in the accounting field. Although the basic accounting principles are learned and applied, the course, in comparison to Principles of Accounting I, covers a smaller amount of material at a somewhat slower pace. It is recommended for students with no previous accounting background.
Instructional Level	Associate of Applied Science
Total Credits	3

ACC 130 Managerial Accounting

Course Standard

Course Information

Description	This course studies management tools for business decision making, including study of the evaluation of financial condition and performance of business. Emphasis is given to the process of formulating and utilizing sound accounting data to evaluate alternatives involved in managerial decision-making necessary for planning, execution, and control of a business enterprise.
Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

ACC 105 Fundamentals of Accounting

Course Standard

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Description	This is a course designed for students who want a working knowledge of accounting, but not to the extent as a person working primarily in the accounting field. Although the basic accounting principles are learned and applied, the course, in comparison to Principles of Accounting I, covers a smaller amount of material at a somewhat slower pace. It is recommended for students with no previous accounting background.
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Total Credits	3

ACC 130 Managerial Accounting

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Description	This course studies management tools for business decision making, including study of the evaluation of financial condition and performance of business. Emphasis is given to the process of formulating and utilizing sound accounting data to evaluate alternatives involved in managerial decision-making necessary for planning, execution, and control of a business enterprise.
Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

ACC 105 Fundamentals of Accounting

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ACC 130 Managerial Accounting

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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

ACC 105 Fundamentals of Accounting

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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

ACC 105 Fundamentals of Accounting

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ACC 130 Managerial Accounting

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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

ACC 105 Fundamentals of Accounting

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ACC 130 Managerial Accounting

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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

ACC 105 Fundamentals of Accounting

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ACC 130 Managerial Accounting

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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

ACC 105 Fundamentals of Accounting

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ACC 130 Managerial Accounting

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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

ACC 105 Fundamentals of Accounting

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ACC 130 Managerial Accounting

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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

ACC 105 Fundamentals of Accounting

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ACC 130 Managerial Accounting

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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

ACC 105 Fundamentals of Accounting

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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

ACC 105 Fundamentals of Accounting

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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

ACC 105 Fundamentals of Accounting

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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
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ACC 130 Managerial Accounting

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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

ACC 105 Fundamentals of Accounting

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ACC 130 Managerial Accounting

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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
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ACC 105 Fundamentals of Accounting

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ACC 130 Managerial Accounting

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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
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Total Credits	3

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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
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Total Credits	3

ACC 105 Fundamentals of Accounting

Course Standard

Course Information

Description	This is a course designed for students who want a working knowledge of accounting, but not to the extent as a person working primarily in the accounting field. Although the basic accounting principles are learned and applied, the course, in comparison to Principles of Accounting I, covers a smaller amount of material at a somewhat slower pace. It is recommended for students with no previous accounting background.
Instructional Level	Associate of Applied Science
Total Credits	3

ACC 130 Managerial Accounting

Course Standard

Course Information

Description	This course studies management tools for business decision making, including study of the evaluation of financial condition and performance of business. Emphasis is given to the process of formulating and utilizing sound accounting data to evaluate alternatives involved in managerial decision-making necessary for planning, execution, and control of a business enterprise.
Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

ACC 105 Fundamentals of Accounting

Course Standard

Course Information

Description	This is a course designed for students who want a working knowledge of accounting, but not to the extent as a person working primarily in the accounting field. Although the basic accounting principles are learned and applied, the course, in comparison to Principles of Accounting I, covers a smaller amount of material at a somewhat slower pace. It is recommended for students with no previous accounting background.
Instructional Level	Associate of Applied Science
Total Credits	3

ACC 130 Managerial Accounting

Course Standard

Course Information

Description	This course studies management tools for business decision making, including study of the evaluation of financial condition and performance of business. Emphasis is given to the process of formulating and utilizing sound accounting data to evaluate alternatives involved in managerial decision-making necessary for planning, execution, and control of a business enterprise.
Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

ACC 105 Fundamentals of Accounting

Course Standard

Course Information

Description	This is a course designed for students who want a working knowledge of accounting, but not to the extent as a person working primarily in the accounting field. Although the basic accounting principles are learned and applied, the course, in comparison to Principles of Accounting I, covers a smaller amount of material at a somewhat slower pace. It is recommended for students with no previous accounting background.
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Total Credits	3

ACC 130 Managerial Accounting

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Description	This course studies management tools for business decision making, including study of the evaluation of financial condition and performance of business. Emphasis is given to the process of formulating and utilizing sound accounting data to evaluate alternatives involved in managerial decision-making necessary for planning, execution, and control of a business enterprise.
Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

ACC 105 Fundamentals of Accounting

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ACC 130 Managerial Accounting

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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

ACC 105 Fundamentals of Accounting

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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

ACC 105 Fundamentals of Accounting

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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

ACC 105 Fundamentals of Accounting

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ACC 130 Managerial Accounting

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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

ACC 105 Fundamentals of Accounting

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ACC 130 Managerial Accounting

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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

ACC 105 Fundamentals of Accounting

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ACC 130 Managerial Accounting

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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

ACC 105 Fundamentals of Accounting

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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

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Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

ACC 105 Fundamentals of Accounting

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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

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Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

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Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

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Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

ACC 105 Fundamentals of Accounting

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ACC 130 Managerial Accounting

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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

ACC 105 Fundamentals of Accounting

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ACC 130 Managerial Accounting

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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
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ACC 105 Fundamentals of Accounting

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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

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Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

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Career Cluster	Business Management and Administration
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Total Credits	3

ACC 130 Managerial Accounting

Course Standard

Course Information

Description	This course studies management tools for business decision making, including study of the evaluation of financial condition and performance of business. Emphasis is given to the process of formulating and utilizing sound accounting data to evaluate alternatives involved in managerial decision-making necessary for planning, execution, and control of a business enterprise.
Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

ACC 105 Fundamentals of Accounting

Course Standard

Course Information

Description	This is a course designed for students who want a working knowledge of accounting, but not to the extent as a person working primarily in the accounting field. Although the basic accounting principles are learned and applied, the course, in comparison to Principles of Accounting I, covers a smaller amount of material at a somewhat slower pace. It is recommended for students with no previous accounting background.
Instructional Level	Associate of Applied Science
Total Credits	3

ACC 130 Managerial Accounting

Course Standard

Course Information

Description	This course studies management tools for business decision making, including study of the evaluation of financial condition and performance of business. Emphasis is given to the process of formulating and utilizing sound accounting data to evaluate alternatives involved in managerial decision-making necessary for planning, execution, and control of a business enterprise.
Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

ACC 105 Fundamentals of Accounting

Course Standard

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Description	This is a course designed for students who want a working knowledge of accounting, but not to the extent as a person working primarily in the accounting field. Although the basic accounting principles are learned and applied, the course, in comparison to Principles of Accounting I, covers a smaller amount of material at a somewhat slower pace. It is recommended for students with no previous accounting background.
Instructional Level	Associate of Applied Science
Total Credits	3

ACC 130 Managerial Accounting

Course Standard

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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

ACC 105 Fundamentals of Accounting

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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

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Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

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Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

ACC 105 Fundamentals of Accounting

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ACC 130 Managerial Accounting

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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

ACC 105 Fundamentals of Accounting

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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

ACC 105 Fundamentals of Accounting

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ACC 130 Managerial Accounting

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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
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ACC 105 Fundamentals of Accounting

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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

ACC 105 Fundamentals of Accounting

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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
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ACC 105 Fundamentals of Accounting

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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

ACC 105 Fundamentals of Accounting

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Total Credits	3

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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
Instructional Level	Associate of Applied Science
Total Credits	3

ACC 105 Fundamentals of Accounting

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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

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Description	Emphasizes a fundamental understanding of corporate and cost accounting. Topics include: accounting for a corporation, statement of cash flows, cost accounting, budgeting and long term liabilities. Laboratory work demonstrates theory presented in class.
Career Cluster	Business Management and Administration
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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

Course Information

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Career Cluster	Business Management and Administration
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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

Course Standard

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Career Cluster	Business Management and Administration
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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

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Career Cluster	Business Management and Administration

ACC 104 Computerized Accounting

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