WSU Tech

2025-2026 Catalog

Mission, Vision, Values, and Guiding Principles

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.

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

2024-2027 Strategic Plan

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 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

National Council for State Authorization Reciprocity Agreements (NC-SARA)

Out-of-State Online Students

Students enrolled in distance education courses or programs offered by the college who do not reside in Kansas should first follow the identified process outlined above to resolve any complaint arising from the student's participation in distance education courses or programs. Unresolved student concerns regarding programs authorized through State Authorization Reciprocity Agreements (SARA) may be directed to the state portal agency using the SARA complaint form. Completed forms and associated documents must then be submitted to **complaints@ksbor.org**.

Click **here** for the state portal agency SARA complaint form.

Nondiscrimination

WSU Tech does not discriminate with regard to race, color, ethnic or national origin, sex, military status, veteran status, handicap/disability, sexual orientation, religion, age or other non-merit reasons, in admissions, educational programs, activities, or employment.

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; Title IX, which protects all people regardless of their gender or gender identity from sex discrimination, which includes sexual harassment and sexual violence; the Americans With Disabilities Act of 1990; the Age Discrimination in Employment Act of 1967; the DrugFree Schools and Campuses Act; the Campus Security Act (Jeanne Cleary Act), as amended; the Family Educational Rights and Privacy Act of 1974, as amended; Section 504 of the Rehabilitation Act of 1973; and the Nondiscrimination on the Basis of Sex in Education Programs or Activities Receiving Federal Financial Assistance rules.

The following people have been designated to handle inquiries regarding the non-discrimination policies:

Justin Pfeifer
Vice President of Student Services, Title IX coordinator
3821 E. Harry, Wichita, KS 67218
316-677-1020 | jpfeifer@wsutech.edu

Amber Neises
Vice President, People & Culture
4004 N. Webb Rd, Wichita, KS 67226
316.677.9561 | aneises1@wsutech.edu

Jennifer Stanyer
Assistant Director, Student Accessibility and Support Services
4004 N. Webb Rd, Wichita, KS 67226
316-677-1065 | jstanyer@wsutech.edu

Education Philosophy

WSU Tech is committed to transforming education into opportunity. Students learn through **immersive experiences** that go beyond traditional classrooms—engaging in industry partnerships, authentic workplace simulations, and applied learning opportunities both inside and outside the classroom. Each course is crafted to build essential skills such as problem-solving, effective communication, information analysis, and **workplace readiness**, equipping students to thrive in an ever-evolving professional landscape.

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 appropriate Vice President may approve alternative general education courses and acceptance of transfer credits or work experience.

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.

General Education Courses

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.

Every degree program incorporates general education courses designed to prepare students with a foundation in computers, written and verbal communication, mathematics, humanities, natural sciences and social sciences. These are also integrated through the core curriculum in WSU Tech's Technical certificate programs.

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

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 **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**	
SOUTHEAST KANSAS CAREER & TECHNICAL EDUCATION CENTER (CTEC) **1301 E. 27th Terrace | Pittsburg, KS | 66762| 620.232.5644** **Website: CTEC**	

Additional Instructional Sites

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

Automotive

Automotive Degree and Certificate Programs

WSU Tech offers programs in automotive technology including: Automotive Technology and Alternative Fuel Vehicle Maintenance & Advanced Electronics in many degree and certificate options.

Associate of Applied Science (AAS): Typically a 2-Year Program
Technical Certificate (TC): Typically a 1-Year Program
Certificate of Completion (COC): Usually completed in less than 1 semester
Kansas Promise Eligible: If marked YES, this program qualifies for a full-ride scholarship of up to $20,000. See **WSUTECH.edu/KansasPromise** for details.

PROGRAM	AAS	TC	COC	KANSAS PROMISE ELIGIBLE
Automotive Technology	AAS	TC		Yes
Alternative Fuel Vehicle Maintenance & Advanced Electronics	AAS	TC		Yes
Mobile Equipment Technology	AAS			Yes

Aviation

Aviation Degree and Certificate Programs

Choose from a variety of Aviation degree and certificate programs to begin your path towards becoming a skilled professional in an aviation-related field. Train at our state-of-the-art campus, the **National Center for Aviation Training** (NCAT), to receive quality experience and skills that will prepare you for your career in Aerostructures, Avionics, Composites or even as an FAA approved Aviation Maintenance Technician.

Associate of Applied Science (AAS): Typically a 2-Year Program
Technical Certificate (TC): Typically a 1-Year Program
Certificate of Completion (COC): Usually completed in less than 1 semester
Kansas Promise Eligible: If marked YES, this program qualifies for a full-ride scholarship of up to $20,000. See **WSUTECH.edu/KansasPromise** for details.

PROGRAM	AAS	TC	COC	KANSAS PROMISE ELIGIBLE
Aerospace Coating & Paint Technology	AAS	TC		Yes
Process Mechanic Painter		TC		Yes
Aerospace Manufacturing Technology	AAS	TC		Yes
Aviation Sheetmetal Assembly		TC		Yes
Aviation Sheetmetal Assembly (CBE)		TC		Yes
Aviation Maintenance Technology	AAS			Yes
Aviation Maintenance Technology - Airframe		TC		Yes
Aviation Maintenance Technology - Powerplant		TC		Yes
Aviation Maintenance Technology - General		TC		Yes
Avionics Technology	AAS	TC		Yes
Composite Technology	AAS			Yes
Composite Technology - Repair		TC		Yes
Composite Technology - Fabrication		TC		Yes
Composite Technology - Fabrication (CBE)		TC		Yes
Nondestructive Testing (NDT)	AAS	TC		Yes
Eddy Current Technician			COC	Yes
Magnetic Particle Technician			COC	Yes
Penetrant Technician			COC	Yes
Radiography Technician			COC	Yes
Ultrasonic Technician			COC	Yes
Professional Pilot	AAS			Yes
Professional Pilot (Private Pilot and Instrument Rating Transfer Lab)	AAS			
Professional Pilot (Private Pilot Transfer Lab)	AAS			
Unmanned Aircraft Systems	AAS	TC		

Business

Business Degree and Certificate Programs

WSU Tech offers programs in business including: Administrative Office Technology, Information Technology Systems and more in many degree and certificate options.

Associate of Applied Science (AAS): Typically a 2-Year Program
Technical Certificate (TC): Typically a 1-Year Program
Certificate of Completion (COC): Usually completed in less than 1 semester
Kansas Promise Eligible: If marked YES, this program qualifies for a full-ride scholarship of up to $20,000. See **WSUTECH.edu/KansasPromise** for details.

PROGRAM	AAS	TC	COC	KANSAS PROMISE ELIGIBLE
Business Administration	AAS			
Operations Management & Supervision	AAS	TC		
Accounting	AAS	TC		
Digital Marketing	AAS	TC		

Information Technology

Construction Trades

Manufacturing Degree and Certificate Programs

WSU Tech offers programs in manufacturing including: Welding, Machining, Robotics, Automotive and more in many degree and certificate options.

Associate of Applied Science (AAS): Typically a 2-Year Program
Technical Certificate (TC): Typically a 1-Year Program
Certificate of Completion (COC): Usually completed in less than 1 semester
Kansas Promise Eligible: If marked YES, this program qualifies for a full-ride scholarship of up to $20,000. See **WSUTECH.edu/KansasPromise** for details.

PROGRAM	AAS	TC	COC	KANSAS PROMISE ELIGIBLE
Construction Technology	AAS			Yes
Construction Technology Level 1		TC		Yes
Construction Technology Level 2		TC		Yes
Construction Technology Level 3		TC		Yes
Climate & Energy Control (HVAC)	AAS	TC		Yes
Electrical Technology	AAS	TC		Yes

Culinary Arts & Hospitality

Culinary & Hospitality Degree and Certificate Programs

WSU Tech offers programs in Culinary Arts and Hospitality in degree and certificate options.

Associate of Applied Science (AAS): Typically a 2-Year Program
Technical Certificate (TC): Typically a 1-Year Program
Certificate of Completion (COC): Usually completed in less than 1 semester
Kansas Promise Eligible: If marked YES, this program qualifies for a full-ride scholarship of up to $20,000. See **WSUTECH.edu/KansasPromise** for details.

PROGRAM	AAS	TC	COC	KANSAS PROMISE ELIGIBLE
Culinary Arts	AAS	TC		
Food Business Management	AAS	TC		

Design

Design Degree and Certificate Programs

WSU Tech offers Design programs including: Interior Design, Architectural Design and more in many degree and certificate options.

Associate of Applied Science (AAS): Typically a 2-Year Program
Technical Certificate (TC): Typically a 1-Year Program
Certificate of Completion (COC): Usually completed in less than 1 semester
Kansas Promise Eligible: If marked YES, this program qualifies for a full-ride scholarship of up to $20,000. See **WSUTECH.edu/KansasPromise** for details.

PROGRAM	AAS	TC	COC	KANSAS PROMISE ELIGIBLE
Architectural Design Technology	AAS	TC		Yes
Engineering Design Technology	AAS	TC		Yes
Interior Design	AAS			Yes

Education

Education Degree and Certificate Programs

WSU Tech offers programs in education including: Para Educator and more in many degree and certificate options.

Associate of Applied Science (AAS): Typically a 2-Year Program
Technical Certificate (TC): Typically a 1-Year Program
Certificate of Completion (COC): Usually completed in less than 1 semester
Kansas Promise Eligible: If marked YES, this program qualifies for a full-ride scholarship of up to $20,000. See **WSUTECH.edu/KansasPromise** for details.

PROGRAM	AAS	TC	COC	KANSAS PROMISE ELIGIBLE
Para Educator	AAS			Yes

Healthcare

Healthcare Degree and Certificate Programs

Choose from various Healthcare degree and certificate programs, which include CNA/CMA/HHA, Medical Assisting, Surgical Technology, and more.

Associate of Applied Science (AAS): Typically a 2-Year Program
Technical Certificate (TC): Typically a 1-Year Program
Certificate of Completion (COC): Usually completed in less than 1 semester
Kansas Promise Eligible: If marked YES, this program qualifies for a full-ride scholarship of up to $20,000. See **WSUTECH.edu/KansasPromise** for details.

PROGRAM	AAS	TC	COC	KANSAS PROMISE ELIGIBLE
Associate Degree Nurse (A.D.N.)	AAS			Yes
Certified Medication Aide			COC	Yes
Certified Nurse Aide			COC	Yes
Home Health Aide			COC	Yes
Healthcare Administration and Management	AAS			Yes
Practical Nursing		TC		Yes
Emergency Medical Services		TC		Yes
Emergency Medical Technician			COC	Yes
Mental Health Technician	AAS	TC		Yes
Patient Care Technician		TC		Yes
Surgical Technology	AAS			Yes
Veterinary Nursing (Vet Tech)	AAS			

Law Enforcement

Law Enforcement Degree and Certificate Programs

WSU Tech offers programs in Law Enforcement including: Criminal Justice and more in many degree and certificate options.

Associate of Applied Science (AAS): Typically a 2-Year Program
Technical Certificate (TC): Typically a 1-Year Program
Certificate of Completion (COC): Usually completed in less than 1 semester
Kansas Promise Eligible: If marked YES, this program qualifies for a full-ride scholarship of up to $20,000. See **WSUTECH.edu/KansasPromise** for details.

PROGRAM	AAS	TC	COC	KANSAS PROMISE ELIGIBLE
Criminal Justice	AAS	TC		
Criminal Justice/Technical Studies	AAS			
Criminal Justice/Technical Studies EMS	AAS			
Private Security Officer Training				

Manufacturing

Manufacturing Degree and Certificate Programs

WSU Tech offers programs in manufacturing including: Welding, Machining, Robotics, Automotive and more in many degree and certificate options.

Associate of Applied Science (AAS): Typically a 2-Year Program
Technical Certificate (TC): Typically a 1-Year Program
Certificate of Completion (COC): Usually completed in less than 1 semester
Kansas Promise Eligible: If marked YES, this program qualifies for a full-ride scholarship of up to $20,000. See **WSUTECH.edu/KansasPromise** for details.

PROGRAM	AAS	TC	COC	KANAS PROMISE ELIGIBLE
Industrial Machine/Maintenance Technology	AAS			Yes
Industrial Machine/Maintenance Technology (Cert A)		TC		Yes
Industrial Machine/Maintenance Technology (Cert B)		TC		Yes
Industrial Machine/Maintenance Technology (Cert C)		TC		Yes
Logistics and Supply Chain Management	AAS	TC		Yes
Machining Technology (Machining & Manufacturing Technology)	AAS	TC		Yes
Multi Axis Machining (Machining & Manufacturing Technology)		TC		Yes
CNC Operator (Machining & Manufacturing Technology)		TC		Yes
Manufacturing Technology	AAS	TC		Yes
Manufacturing Assembly Basics		TC		Yes
Manufacturing Assembly		TC		Yes
Quality Assurance Inspection	AAS	TC		Yes
Robotics	AAS	TC		Yes
Welding Technology	AAS			Yes
Welding Technology Level 1		TC		Yes
Welding Technology Level 1 (GMAW)		TC		Yes
Welding Technology Level 1 (SMAW)		TC		Yes
Welding Technology Level 2		TC		Yes

Degree Maps

A degree map is a suggested schedule of courses based on degree and certificate requirements. The sample schedule serves as a general guideline to help build a full schedule each term. Milestones, courses, and special requirements necessary for timely progress to complete a major are designated to keep you on track to graduate in in the time associated with your degree or certificate type. Missing milestones could delay your program completion.

This map is not a substitute for academic advisement. Contact your advisor if you have any questions about scheduling or about program requirements.

A

Accounting

- **Accounting, AAS**
- **Accounting, TC**

Aerospace Coatings & Paint Technology

- **Aerospace Coatings & Paint Technology, AAS**
- **Aerospace Coatings & Paint Technology, TC**

Aerospace Manufacturing Technology

- **Aerospace Manufacturing Technology, AAS**
- **Aerospace Manufacturing Technology, TC**
- **Aviation Sheetmetal Assembly, TC**
- **Aviation Sheetmetal Assembly, CBE**
- **Process Mechanic Painter, TC**

Alternative Fuel Vehicle Maintenance & Advanced Electronics

- **Alternative Fuel Vehicle Maintenance & Advanced Electronics, AAS**
- **Alternative Fuel Vehicle Maintenance & Advanced Electronics, TC**

Architectural Design Technology

- **Architectural Design Technology, AAS**
- **Architectural Design Technology, TC**

Associate Degree Nurse (A.D.N)

Automotive Technology

- **Automotive Technology, AAS**
- **Automotive Technology, TC**

Aviation Maintenance Technology

- **Aviation Maintenance Technology, AAS**
- **Aviation Maintenance Powerplant, TC**
- **Aviation Maintenance General, TC**

Avionics Technology

- Avionics Technology, AAS
- Avionics Technology, TC

B

Business Administration, AAS

C

Climate & Energy Control

- Climate & Energy Control (HVAC), AAS
- Climate & Energy Control, Cert B
- Climate & Energy Control, Cert C

Cloud Computing/Cloud Application Development

- Cloud Computing/Cloud Application Development, AAS
- Cloud Computing/Cloud Application Development, Cert A
- Cloud Computing/Cloud Application Development, Cert C

CMA Certified Medication Aide

CNA Certified Nurse Aide

Composite Technology

- Composite Technology, AAS
- Composite Fabrication, TC
- Composite Repair, TC

Computer Support Specialist

- Computer Support Specialist, AAS
- Computer Support Specialist, Cert A
- Computer Support Specialist, Cert B
- Computer Support Specialist with Emphasis in Cyber Security, AAS
- Computer Support Specialist with Emphasis in Cyber Security, Cert B

Construction Technology

- Construction Technology, AAS
- Construction Technology Level 1, TC
- Construction Technology Level 3, TC

Criminal Justice

- Criminal Justice, AAS
- Criminal Justice, TC

Culinary Arts

- Culinary Arts, AAS
- Culinary Arts, TC

D

Digital Marketing

- Digital Marketing, AAS
- Digital Marketing, TC

E

Electrical Technology

- Electrical Technology, AAS
- Electrical Technology, TC

Emergency Medical Services

Engineering Design Technology

- Engineering Design Technology, AAS
- Engineering Design Technology, TC

F

Food Business Management

- Food Business Management, AAS
- Food Business Management, TC

H

Healthcare Administration and Management

- Healthcare Administration and Management, AAS
- Practical Nursing, TC

HHA Home Health Aide, COC

I

Industrial Machine/Maintenance Technology

- Industrial Machine/Maintenance Technology, AAS
- Industrial Machine/Maintenance Technology, Cert A
- Industrial Machine/Maintenance Technology, Cert B
- Industrial Machine/Maintenance Technology, Cert C

Information Technology Systems Computer Support Specialist

- Computer Support Specialist, AAS
- Computer Support Specialist (Cert A), TC
- Computer Support Specialist (Cert B), TC

Information Technology Systems Computer Support Specialist with Emphasis in Cyber Security

- Computer Support Specialist with Emphasis in Cyber Security, AAS
- Computer Support Specialist with Emphasis in Cyber Security, TC

Interior Design, AAS

L

Logistics and Supply Chain Management

- Logistics and Supply Chain Management, AAS
- Logistics and Supply Chain Management, TC

M

Machining Technology (Machining & Manufacturing Technology)

- Machining Technology (Machining & Manufacturing Technology), AAS
- CNC Operator (Machining & Manufacturing Technology), TC
- Machining Technology (Machining & Manufacturing Technology), TC
- Multi Axis Machining (Machining & Manufacturing Technology), TC

Manufacturing Technology

- Manufacturing Technology, AAS
- Manufacturing Assembly, TC
- Manufacturing Assembly Basics, TC
- Manufacturing Technology, TC

Mental Health Technician

- Mental Health Technician, AAS
- Mental Health Technician, TC

Mobile Equipment Technology

- Mobile Equipment Technology, AAS

N

Nondestructive Testing

- Nondestructive Testing, AAS
- Nondestructive Testing, TC
- Eddy Current Technician, COC
- Magnetic Particle Technician, COC
- Penetrant Technician, COC
- Radiography Technician, COC
- Ultrasonic Technician, COC

O

Operations Management and Supervision

- Operations Management and Supervision, AAS
- Operations Management and Supervision, TC

P

Para Educator, AAS

Patient Care Technician, TC

Professional Pilot Training

- Professional Pilot Training, AAS
- Professional Pilot, AAS (Private Pilot and Instrument Rating Transfer Lab), AAS
- Professional Pilot, AAS (Private Pilot Transfer Lab), AAS

Q

Quality Assurance Inspection

- Quality Assurance Inspection, AAS
- Quality Assurance Inspection, TC

R

Robotics

- Robotics, AAS
- Robotics, TC

S

Surgical Technology, AAS

T

Technical Studies/Criminal Justice/Business Administration, AAS

Technical Studies/Criminal Justice/EMS, AAS

Tooling and Fixture Fabrication

- Tooling and Fixture Fabrication, AAS
- Tooling and Fixture Fabrication, TC

U

Unmanned Aircraft Systems

- Unmanned Aircraft Systems, AAS
- Unmanned Aircraft Systems, Cert A

V

Veterinary Nursing, AAS

W

Welding Technology

- Welding Technology, AAS
- Welding Technology Level 1, TC
- Welding Technology Level 2, TC

All Programs

AAS-ACCT_ING - Accounting, AAS

Overview

Department(s)
Professional Studies

Degree Designation
Associate of Applied Science

Catalog Full Description
The Associate in Applied Science in Accounting program is designed to provide students with a comprehensive foundation in accounting principles and related business skills, including data analysis. This two-year program combines theoretical knowledge with practical applications to prepare students for entry-level positions in accounting.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Accounting, AAS - $9,719.00

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.

Campus Location
WSU Tech South – 3821 E. Harry, Wichita, KS 67218

Requirements

Simple Requisites

Program Requirements

Accounting, AAS

Type
Completion Requirement

Accounting Requirements

Complete ALL of the following Courses:

- ACC105 - Fundamentals of Accounting - 3 Credits
- ACC130 - Managerial Accounting - 3 Credits
- ACC137 - QuickBooks - 3 Credits
- ACC160 - Principles of Accounting I - 3 Credits
- ACC170 - Principles of Accounting II - 3 Credits
- ACC230 - Tax Accounting - 3 Credits
- AAD110 - Data Exploration and Interpret - 3 Credits
- AAD120 - Data Visualization - 3 Credits
- BUS104 - Introduction to Business - 3 Credits
- BUS130 - Personal Finance - 3 Credits
- BUS200 - Principles of Management - 3 Credits
- CED115 - Computer Applications - 3 Credits
- ECO105 - Principles of Macroeconomics - 3 Credits
- ECO110 - Principles of Microeconomics - 3 Credits
- ENG101 - Composition I - 3 Credits
- MTH108 - Contemporary Math - 3 Credits
- PHL110 - Ethics - 3 Credits
- SPH101 - Public Speaking - 3 Credits

General Education Requirement

Earn at least 3 credits from the following:

- Humanities Elective

General Education Requirment

Earn at least 3 credits from the following:

- Social Sciences Elective

Degree Maps

Degree Map Name
Accounting, AAS
Total Degree Map Credits
60
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	12	0

Requirement Select

- ACC105 - Fundamentals of Accounting

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- ACC160 - Principles of Accounting I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- BUS130 - Personal Finance

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- CED115 - Computer Applications

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	12	0

Requirement Select

- ACC137 - QuickBooks

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- ACC170 - Principles of Accounting II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- BUS104 - Introduction to Business

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- MTH108 - Contemporary Math

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	6	3

Requirement Select
- SPH101 - Public Speaking

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- Humanities Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	12	3

Requirement Select
- ACC130 - Managerial Accounting

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- ACC230 - Tax Accounting

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- BUS200 - Principles of Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- Social Sciences Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	12	0

Requirement Select
- ENG101 - Composition I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- PHL110 - Ethics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- AAD110 - Data Exploration and Interpretation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- ECO105 - Principles of Macroeconomics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Summer	6	0

Requirement Select
- AAD120 - Data Visualization

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- ECO110 - Principles of Microeconomics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

AAS-AER_COAT - Aerospace Coatings & Paint Technology, AAS

Overview

Department(s)
Aviation

Degree Designation
Associate of Applied Science

Catalog Full Description
Aerospace Coatings & Paint Technology associate degree program is a sequence of courses designed to produce an aerospace technician with multiple skill sets, a well rounded understanding of the aerospace industry and the depth and breadth of knowledge which comes from general education courses. This program provides a

broad based understanding of coating and paint processes within the aerospace industry. The curriculum includes comprehensive learning experiences in all aspects of the coating and paint industry including formulation, application and specialized areas. Students will round off their educational experience by completing 15 credits of general education courses in five areas of study including mathematics, social sciences, English, humanities, and communications.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Aerospace Coatings & Paint Technology, AAS - $16,661.00

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.

Campus Location
WSU Tech Main Campus - National Center for Aviation Training (NCAT) - 4004 N. Webb Rd., Wichita, KS 67226

Requirements

Simple Requisites

Program Requirements

Aerospace Coatings & Paint Technology, AAS
Type
Completion Requirement

Aerospace Coatings & Paint Technology Course Requirements

Complete ALL of the following Courses:

- ACP100 - Intro to Coatings & Paint Tech - 3 Credits
- ACP101 - Surface Preparation & Coatings - 4 Credits
- ACP102 - Perf & Durability of Coatings - 3 Credits
- ACP103 - Color Technology - 3 Credits
- ACP104 - Specialized Coatings Processes - 3 Credits
- ACP105 - Specialized Detailing - 3 Credits
- ACP106 - Aerospace Coatings & Materials - 3 Credits
- ACP111 - Technical Co-Operative Project - 4 Credits
- ACP121 - Surface Prep & Coatings II - 3 Credits
- ACP124 - Specialized Coatings Proc II - 4 Credits
- ACP145 - Environmental Health & Safety - 2 Credits
- AVC104 - Quality Control Concepts - 1 Credits
- AVC105 - Aircraft Familiarization - 1 Credits
- AVC107 - Fundamentals for Aerospace Mfg - 1 Credits
- AVC110 - Safety/OSHA 10 - 1 Credits
- AVC112 - Blueprint Reading - 2 Credits
- AVC120 - Introduction to Sealing - 1 Credits
- AVC140 - Electrical Bonding & Grounding - 1 Credits
- MCD106 - Precision Measuring - 2 Credits
- ENG101 - Composition I - 3 Credits

General Education Requirement

Earn at least 3 credits from the following:

- Communication Elective

General Education Requirement

Earn at least 3 credits from the following:

- Humanities Elective

General Education Requirement

Earn at least 3 credits from the following:

- Math Elective

General Education Requirement

Earn at least 3 credits from the following:

- Social Sciences Elective

Entry Requirements

- Be 16 years of age or older
- Complete college admissions application

Degree Maps

Degree Map Name
Aerospace Coatings & Paint Technology
Total Degree Map Credits
60
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	0

Requirement Select

- ACP100 - Introduction to Coatings & Paint Technology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- ACP145 - Environmental Health and Safety

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- AVC104 - Quality Control Concepts

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- AVC105 - Aircraft Familiarization

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- AVC107 - Fundamentals for Aerospace Manufacturing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- AVC110 - Safety/OSHA 10

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- AVC112 - Blueprint Reading

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- AVC120 - Introduction to Sealing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- AVC140 - Electrical Bonding & Grounding

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- MCD106 - Precision Measuring

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	13	3

Requirement Select
- ACP101 - Surface Preparation & Coatings

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select
- ACP121 - Surface Preparation & Coatings II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- ENG101 - Composition I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- Communication Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	6	3

Requirement Select
- ACP104 - Specialized Coatings Processes

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select
- Math Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	13	3

Requirement Select
- ACP102 - Performance & Durability of Coatings

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- ACP106 - Aerospace Coatings & Materials

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- ACP124 - Specialized Coatings Processes II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select
- Social Sciences Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	13	3

Requirement Select
- ACP103 - Color Technology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- ACP105 - Specialized Detailing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- ACP111 - Technical Co-Operative Project

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	180
Clinical	-
Criticality	No

Requirement Select
- Humanities Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

AAS-ALT_FUEL - Alternative Fuel Vehicle Maintenance & Advanced Electronics, AAS

Overview

Department(s)
Applied Technologies

Degree Designation
Associate of Applied Science

Catalog Full Description
The Alternative Fuel Maintenance & Advanced Electronics program will prepare students to apply technical knowledge and skills to the maintenance of alternative fuel vehicles. Instruction will include, electrical vehicles, liquefied petroleum gas (LPG) vehicles, compressed natural gas (CNG) vehicles, hybrid fuel technology, electrical and electronic systems, engine performance, diagnosis and repair, and conversion/installation. The Alternative Fuel Maintenance & Advanced Electronics program also allows students to gain skills and knowledge to accurately diagnose, repair, and service various automotive vehicles. The program includes classroom and lab instruction in safety, electrical and electronic systems, suspension and steering, engine performance, manual drive train and axles, heating and air conditioning, engine repair, and brakes. Third-Party Credentialing has become an excellent way to display the knowledge and skills acquired in a program. Students have the opportunity to earn credentials while learning to operate wheel service, wheel alignment, brake service and diagnostic equipment from several different manufacturers. Additionally, students have the opportunity to earn student ASE certifications as a part of the program.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Alternative Fuel Vehicle Maintenance & Advanced Electronics, AAS - $14,151

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.

Campus Location
WSU Tech City Center – 301 S. Grove, Wichita, KS 67211

Requirements

Simple Requisites

Program Requirements

Alternative Fuel Vehicle Maintenance & Advanced Electronics, AAS
Type
Completion Requirement

Alternative Fuel Vehicle Maintenance & Advanced Electronics Requirements

Complete ALL of the following Courses:

- AFV110 - Electrical I - 3 Credits
- AFV120 - Electrical II - 3 Credits
- AFV130 - Suspension and Steering I - 3 Credits
- AFV135 - Intro to Alternative Fuels - 3 Credits
- AFV140 - Engine Repair - 4 Credits
- AFV145 - Hybrid Systems & Maintenance - 3 Credits
- AFV150 - Electric/Fuel Cell Technology - 1 Credits
- AFV155 - High Volt Battery Tech & Mgmt - 3 Credits
- AFV160 - Brakes I - 3 Credits
- AFV165 - Introduction to CNG and LPG - 1 Credits
- AFV170 - Computer Systems for Alt Fuels - 3 Credits
- AFV175 - Automatic Transmission Repair - 4 Credits
- AFV180 - Heating & Air Conditioning - 4 Credits
- AFV206 - PowerTrain Systems - 4 Credits
- AFV225 - Electrical III - 2 Credits
- TAS105 - Orientation to Transportation - 1 Credits
- TAS160 - Transportation Industry Safety - 1 Credits
- ENG101 - Composition I - 3 Credits

General Education Requirement

Earn at least 3 credits from the following:

- Communication Elective

General Education Requirement

Earn at least 3 credits from the following:

- Humanities Elective

General Education Requirement

Earn at least 3 credits from the following:

- Math Elective

General Education Requirement

Earn at least 3 credits from the following:

- Social Sciences Elective

Entry Requirements

- 16 years of age or older
- Show documentation of high school graduation or satisfaction of high school equivalency prior to graduation from the program
- Meet entrance exam requirements for general education requirements
- Complete college admissions documentation

Degree Maps

Degree Map Name
Alternative Fuel Maintenance & Advanced Electronics, AAS
Total Degree Map Credits
61
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	23	0

Requirement Select

- AFV110 - Electrical I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- AFV135 - Introduction to Alternative Fuels

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- AFV140 - Engine Repair

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- AFV160 - Brakes I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- AFV180 - Heating & Air Conditioning

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- AFV206 - PowerTrain Systems

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- TAS105 - Orientation to the Transportation Industry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- TAS160 - Transportation Industry Safety

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	25	3

Requirement Select
- AFV120 - Electrical II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- AFV130 - Suspension and Steering I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- AFV145 - Hybrid Systems & Maintenance

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- AFV155 - High Voltage Battery Technology & Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- AFV170 - Computer Systems for Alternative Fuels

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- AFV175 - Automatic Transmission Repair

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- ENG101 - Composition I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- Math Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	13	9

Requirement Select

- AFV150 - Electric/Fuel Cell Technology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select

- AFV165 - Introduction to CNG and LPG Conversion, Installation & Maintenance

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select

- AFV225 - Electrical III

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- Communication Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Humanities Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Social Sciences Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Total General Education Credits
0

Total Major Credits
0

Total Minor Credits
0

Total Elective Credits
0

AAS-APP_TECH - Applied Technologies, AAS

Overview

Department(s)
Professional Studies

Degree Designation
Associate of Applied Science

Catalog Full Description
The Applied Technologies Associate of Applied Science (AAS) degree serves as WSU Tech's flexible, institution-approved option for awarding a technical associate degree when a student's coursework spans multiple disciplines. To complete this degree, students must earn a minimum of 45 technical credit hours drawn from at least two distinct technical fields, with at least 15 credit hours in each discipline, and a minimum of 15 credit hours of general education for a total not to exceed 68 credit hours.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Technical Studies: Criminal Justice/Business Administration, AAS - $10,328.00

Technical Studies: Criminal Justice/EMS, AAS - $12,723.00

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.

Campus Location
WSU Tech South – 3821 E. Harry, Wichita, KS 67218

Requirements

Simple Requisites

Program Requirements

Technical Studies: Criminal Justice/Business Administration, AAS
Type
Completion Requirement

Technical Studies: Criminal Justice/Business Administration Requirements

Complete ALL of the following Courses:
- CRJ101 - Intro to Criminal Justice - 3 Credits
- CRJ105 - Criminal Investigation - 3 Credits
- CRJ110 - Criminal Law - 3 Credits
- CRJ115 - Agency Administration - 3 Credits
- CRJ120 - Juvenile Delinquency & Justice - 3 Credits
- CRJ125 - Law Enforcement Ops & Proc - 3 Credits
- CRJ130 - Criminal Procedures - 3 Credits
- CRJ135 - Criminal Just Interview & Rpt - 3 Credits
- CRJ140 - Prof Responsibility Crim Just - 3 Credits
- CRJ145 - Corrections - 3 Credits
- CRJ155 - Policing Diverse Cultures - 3 Credits
- CRJ160 - Internship in Criminal Justice - 3 Credits
- CPR001 - CPR For Healthcare Providers - 1 Credits
- BUS104 - Introduction to Business - 3 Credits
- BUS121 - Business Communications - 3 Credits
- BUS125 - Business Law - 3 Credits
- BUS130 - Personal Finance - 3 Credits
- BUS200 - Principles of Management - 3 Credits
- ENG101 - Composition I - 3 Credits

General Education Requirement

Earn at least 3 credits from the following:
- Communication Elective

General Education Requirement

Earn at least 3 credits from the following:
- Humanities Elective

General Education Requirement

Earn at least 3 credits from the following:
- Math Elective

General Education Requirement

Earn at least 3 credits from the following:

- Social Sciences Elective

Technical Studies: Criminal Justice/EMS, AAS
Type
Completion Requirement

Technical Studies: Criminal Justice/EMS Requirements

Complete ALL of the following Courses:

- CRJ101 - Intro to Criminal Justice - 3 Credits
- CRJ105 - Criminal Investigation - 3 Credits
- CRJ110 - Criminal Law - 3 Credits
- CRJ115 - Agency Administration - 3 Credits
- CRJ120 - Juvenile Delinquency & Justice - 3 Credits
- CRJ125 - Law Enforcement Ops & Proc - 3 Credits
- CRJ130 - Criminal Procedures - 3 Credits
- CRJ135 - Criminal Just Interview & Rpt - 3 Credits
- CRJ140 - Prof Responsibility Crim Just - 3 Credits
- CRJ145 - Corrections - 3 Credits
- CRJ155 - Policing Diverse Cultures - 3 Credits
- CRJ160 - Internship in Criminal Justice - 3 Credits
- CPR001 - CPR For Healthcare Providers - 1 Credits
- EMS105 - Emergency Medical Technician - 12 Credits
- EMS115 - Tactical Medicine - 3 Credits
- ENG101 - Composition I - 3 Credits

General Education Requirement

Earn at least 3 credits from the following:

- Communication Elective

General Education Requirement

Earn at least 3 credits from the following:

- Humanities Elective

General Education Requirement

Earn at least 3 credits from the following:

- Math Elective

General Education Requirement

Earn at least 3 credits from the following:

- Social Sciences Elective

Entry Requirements
Be 17 years of age or older
Complete the Accuplacer entry exams with minimum scores of 60 in Reading, 56 in Sentence Skills and 35 in Math

Degree Maps

Degree Map Name
Technical Studies: Criminal Justice/Emergency Medical Services, AAS
Total Degree Map Credits
67
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	6

Requirement Select

- CRJ101 - Introduction to Criminal Justice

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- CRJ110 - Criminal Law

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- CRJ140 - Professional Responsibility in Criminal Justice

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- Humanities Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Social Sciences Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	13	3

Requirement Select
- CRJ105 - Criminal Investigation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- CRJ145 - Corrections

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- CPR001 - CPR For Healthcare Providers

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- ENG101 - Composition I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- Math Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	12	0

Requirement Select
- EMS105 - Emergency Medical Technician

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	12
Progress Credits	-
Contact Hours	225
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	12	0

Requirement Select
- CRJ115 - Agency Administration

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- CRJ120 - Juvenile Delinquency and Justice

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- CRJ125 - Law Enforcement Operations and Procedures

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- EMS115 - Tactical Medicine

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	3

Requirement Select
- CRJ130 - Criminal Procedures

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- CRJ135 - Criminal Justice Interview and Report Writing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- CRJ155 - Policing Diverse Cultures

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- CRJ160 - Internship in Criminal Justice

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- Communication Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Degree Map Name
Technical Studies: Criminal Justice/Business Administration, AAS
Total Degree Map Credits

67

Degree Map Effective Catalog Year

2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	3

Requirement Select

- CRJ101 - Introduction to Criminal Justice

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- CRJ110 - Criminal Law

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- CRJ140 - Professional Responsibility in Criminal Justice

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- BUS104 - Introduction to Business

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- Humanities Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	16	0

Requirement Select

- CRJ105 - Criminal Investigation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- CRJ130 - Criminal Procedures

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- CRJ145 - Corrections

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- BUS121 - Business Communications

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- CPR001 - CPR For Healthcare Providers

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- ENG101 - Composition I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	3	3

Requirement Select
- Math Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select
- CRJ115 - Agency Administration

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- CRJ120 - Juvenile Delinquency and Justice

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- CRJ125 - Law Enforcement Operations and Procedures

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- BUS125 - Business Law

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- BUS130 - Personal Finance

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	18	6

Requirement Select
- CRJ135 - Criminal Justice Interview and Report Writing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- CRJ155 - Policing Diverse Cultures

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- CRJ160 - Internship in Criminal Justice

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- BUS200 - Principles of Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- Communication Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Social Sciences Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

AAS-AUT_TECH - Automotive Technology, AAS

Overview

Department(s)
Applied Technologies

Degree Designation
Associate of Applied Science

Catalog Full Description
This program allows students to gain skills and knowledge to accurately diagnose, repair and service various automotive vehicles. Program includes classroom and lab instruction in safety, electrical and electronic systems, suspension and steering, engine performance, manual drive train and axles, heating and air conditioning, engine repair and brakes. The program has Automotive Service Excellence

Foundation accreditation. Students will round off their educational experience by completing 15 credits of general education courses in five areas of study including mathematics, humanities, and social sciences, English and communications.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Automotive Technology, AAS - $14,151.00

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.

Campus Location
WSU Tech City Center – 301 S. Grove, Wichita, KS 67211

Requirements

Simple Requisites

Program Requirements

Automotive Technology, AAS
Type
Completion Requirement

Automotive Technology Requirements

Complete ALL of the following Courses:

- TAS105 - Orientation to Transportation - 1 Credits
- TAS121 - Engine Repair - 4 Credits
- TAS124 - Electrical I - 3 Credits
- TAS125 - Electrical II - 3 Credits
- TAS127 - Automatic Transmission Repair - 4 Credits
- TAS128 - Heating & Air Conditioning - 4 Credits
- TAS131 - Engine Performance I - 3 Credits
- TAS132 - Engine Performance II - 3 Credits
- TAS133 - Brakes I - 3 Credits
- TAS134 - Brakes II for Automotive - 1 Credits
- TAS135 - Computer Systems for Auto - 3 Credits
- TAS136 - Suspension and Steering I - 3 Credits
- TAS137 - Suspension and Steering II - 2 Credits
- TAS150 - Specialized Training - 2 Credits
- TAS160 - Transportation Industry Safety - 1 Credits
- TAS206 - PowerTrain Systems - 4 Credits
- TAS225 - Electrical III - 2 Credits
- ENG101 - Composition I - 3 Credits

General Education Requirement

Earn at least 3 credits from the following:

- Communication Elective

General Education Requirement

Earn at least 3 credits from the following:

- Humanities Elective

General Education Requirement

Earn at least 3 credits from the following:

- Math Elective

General Education Requirement

Earn at least 3 credits from the following:

- Social Sciences Elective

Entry Requirements

· Be 16 years of age or older

· Show documentation of high school graduation or satisfaction of high school equivalency prior to graduation from the program

· Meet entrance exam requirements for general education requirements

· Complete college admissions documentation

Degree Maps

Degree Map Name
Automotive Technology, AAS
Total Degree Map Credits
61
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	24	0

Requirement Select

- TAS105 - Orientation to the Transportation Industry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select

- TAS121 - Engine Repair

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- TAS127 - Automatic Transmission Repair

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- TAS128 - Heating & Air Conditioning

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- TAS133 - Brakes I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- TAS136 - Suspension and Steering I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- TAS160 - Transportation Industry Safety

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select

- TAS206 - PowerTrain Systems

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	23	3

Requirement Select

- TAS124 - Electrical I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- TAS125 - Electrical II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- TAS131 - Engine Performance I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- TAS132 - Engine Performance II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- TAS135 - Computer Systems for Automotive

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- TAS137 - Suspension and Steering II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- ENG101 - Composition I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- Math Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	14	9

Requirement Select
- TAS134 - Brakes II for Automotive

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- TAS150 - Specialized Training

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- TAS225 - Electrical III

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- Communication Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Humanities Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Social Sciences Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Total General Education Credits
0

Total Major Credits
0

Total Minor Credits
0

Total Elective Credits
0

AAS-AVIA_MFG - Aerospace Manufacturing Technology, AAS

Overview

Department(s)
Aviation

Degree Designation
Associate of Applied Science

Catalog Full Description
Aerospace Manufacturing Technology associate degree program is a sequence of courses designed to produce an assembly mechanic with a well-rounded understanding of the aerospace industry and the depth and breadth of knowledge which comes from general education courses. In this program students will complete a core set of foundational aviation courses and then move on to master the high demand skillset associated with an Aerospace Assembly Mechanic. The coursework will prepare students to complete the certification for Aerospace Core and Aerospace Assembly Mechanic endorsed by the National Association of Manufacturers (NAM).

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Aerospace Manufacturing Technology, AAS - $14,767.00

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.

Campus Location
WSU Tech Main Campus - National Center for Aviation Training (NCAT) - 4004 N. Webb Rd., Wichita, KS 67226

Requirements

Simple Requisites

Program Requirements

Aerospace Manufacturing Technology, AAS
Type
Completion Requirement

Aerospace Manufacturing Technology Requirement

Earn at least 45 credits from the following:
- Aerospace Manufacturing Technology Elective

General Education Requirement

Complete ALL of the following Courses:
- ENG101 - Composition I - 3 Credits

General Education Requirement

Earn at least 3 credits from the following:
- Communication Elective

General Education Requirement

Earn at least 3 credits from the following:
- Humanities Elective

General Education Requirement

Earn at least 3 credits from the following:

- Math Elective

General Education Requirement

Earn at least 3 credits from the following:

- Social Sciences Elective

Entry Requirements

- Be 16 years of age or older
- Complete all admissions documents

Degree Maps

Degree Map Name
Aerospace Manufacturing Technology, AAS
Total Degree Map Credits
60
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	18	18

Requirement Select

- Aerospace Manufacturing Technology Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	15
Progress Credits	15
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select

- Math Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	18	18

Requirement Select

- Aerospace Manufacturing Technology Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	15
Progress Credits	15
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select

- Communication Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	6	3

Requirement Select

- ENG101 - Composition I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- Social Sciences Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	18	18

Requirement Select
- Aerospace Manufacturing Technology Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	15
Progress Credits	15
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- Humanities Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Total General Education Credits
0
Total Major Credits
0
Total Minor Credits
0
Total Elective Credits
0

AAS-AVIONICS - Avionics Technology, AAS

Overview

Department(s)
Aviation

Degree Designation
Associate of Applied Science

Catalog Full Description
The Avionics Technology associate degree program prepares students to work in the field of avionics technology. Learning opportunities develop academic, technical and professional knowledge and skills required for job acquisition. The program emphasizes a combination of aircraft and avionics theory and practical application necessary for successful employment. Program graduates receive an Avionics Technology technical certificate that qualifies them as avionics technicians. Students will round off their educational experience by completing 15 credits of general education courses in five areas of study including mathematics, humanities, social sciences, English and communications.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Avionics Technology, AAS - $14,146.00

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.

Campus Location
WSU Tech Main Campus - National Center for Aviation Training (NCAT) - 4004 N. Webb Rd., Wichita, KS 67226

Requirements

Simple Requisites

Program Requirements

Avionics Technology, AAS
Type
Completion Requirement

Avionics Technology Requirements

Complete ALL of the following Courses:
- AVT118 - Fundamentals of Flight - 3 Credits
- AVT128 - Electricity & Electronics I - 4 Credits
- AVT138 - Electricity and Electronics II - 4 Credits
- AVT146 - Avionics - 3 Credits
- AVT156 - Wiring & Cannon Plug Lab - 2 Credits
- AVT166 - Advanced Wiring - 3 Credits
- AVT175 - Troubleshooting Essentials - 3 Credits
- AVT185 - UAS Operations - 3 Credits
- AVT195 - Soldering - 2 Credits
- AVT210 - Comm, Nav & Surveillance Sys I - 5 Credits
- AVT220 - Comm, Nav & Surveillance II - 4 Credits
- AVT230 - Avionics Sys & Troubleshooting - 5 Credits
- AVT240 - Aircraft & Elec for NCATT Apps - 4 Credits
- ENG101 - Composition I - 3 Credits

General Education Requirement

Earn at least 3 credits from the following:
- Communication Elective

General Education Requirement

Earn at least 3 credits from the following:
- Humanities Elective

General Education Requirement

Earn at least 3 credits from the following:
- Math Elective

General Education Requirement

Earn at least 3 credits from the following:
- Social Sciences Elective

Entry Requirements
- 16 Years of age
- Meet the required placement score for college algebra (ALEKS 75)
- Complete College admissions documents

Degree Maps

Degree Map Name
Avionics Technology, AAS
Total Degree Map Credits
60
Degree Map Effective Catalog Year

2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	14	3

Requirement Select
- AVT118 - Fundamentals of Flight

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- AVT128 - Electricity & Electronics I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select
- AVT138 - Electricity and Electronics II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select
- Math Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	14	0

Requirement Select
- AVT146 - Avionics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- AVT156 - Wiring & Cannon Plug Lab

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- AVT166 - Advanced Wiring

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- AVT175 - Troubleshooting Essentials

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select

- ENG101 - Composition I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	8	3

Requirement Select

- AVT185 - UAS Operations

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- AVT195 - Soldering

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- Humanities Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	12	3

Requirement Select

- AVT210 - Communication, Navigation & Surveillance Systems I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	120
Clinical	-
Criticality	No

Requirement Select

- AVT220 - Communication, Navigation & Surveillance Systems II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select

- Communication Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	12	3

Requirement Select

- AVT230 - Avionics Systems & Troubleshooting

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	120
Clinical	-
Criticality	No

Requirement Select
- AVT240 - Aircraft and Electronics for NCATT Applications

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- Social Sciences Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Total General Education Credits
0

Total Major Credits
0

Total Minor Credits
0

Total Elective Credits
0

AAS-BUS_ADMI - Business Administration, AAS

Overview

Department(s)
Professional Studies

Degree Designation
Associate of Applied Science

Catalog Full Description
The Business Administration program is designed to provide students with the skills necessary for entry-level employment or advancement within a variety of career fields within the public and private sectors. The two-year program will prepare students for career opportunities as department and division managers, product managers, production line supervisors, assistant store managers, and entry-level banking and sales representatives. Students will receive training in the areas of accounting, marketing, management, economics, and finance. Students will round off their educational experience by completing general education courses in mathematics, social sciences, English, communications, and humanities.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Business Administration, AAS - $9,189.00

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.

Campus Location
WSU Tech South – 3821 E. Harry, Wichita, KS 67218

Requirements

Simple Requisites

Program Requirements

Business Administration
Type
Completion Requirement

Business Adminstration Requirements

Complete ALL of the following Courses:
- BUS104 - Introduction to Business - 3 Credits
- BUS121 - Business Communications - 3 Credits
- BUS130 - Personal Finance - 3 Credits
  OR BUS180 - Business Internship - 3 Credits
  OR ACC137 - QuickBooks - 3 Credits
- BUS140 - Principles of Marketing - 3 Credits
- BUS200 - Principles of Management - 3 Credits
- ACC105 - Fundamentals of Accounting - 3 Credits
- ACC130 - Managerial Accounting - 3 Credits
- ACC160 - Principles of Accounting I - 3 Credits
- ACC170 - Principles of Accounting II - 3 Credits
- ECO105 - Principles of Macroeconomics - 3 Credits
- ECO110 - Principles of Microeconomics - 3 Credits
- ENG101 - Composition I - 3 Credits
- ENG120 - Composition II - 3 Credits
- ENT110 - Intro to Entrepreneurship - 3 Credits
- MTH112 - College Algebra - 3 Credits
- MTH120 - Elementary Statistics - 3 Credits
- PHL115 - Logic - 3 Credits
- PSY101 - General Psychology - 3 Credits
- SPH101 - Public Speaking - 3 Credits

General Education Requirement

Earn at least 3 credits from the following:
- Humanities Elective

Entry Requirements
Be 16 years of age or older, Show documentation of high school graduation or satisfaction of high school equivalency prior to graduation from the program, Meet entrance exam requirements for the required english and math courses.

Degree Maps

Degree Map Name
Business Administration, AAS
Total Degree Map Credits
60
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	3

Requirement Select

- BUS104 - Introduction to Business

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- ACC105 - Fundamentals of Accounting

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- ENG101 - Composition I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- PHL115 - Logic

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- Humanities Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select

- BUS121 - Business Communications

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- ACC160 - Principles of Accounting I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- ENG120 - Composition II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- MTH112 - College Algebra

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- PSY101 - General Psychology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select

- BUS140 - Principles of Marketing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- ACC170 - Principles of Accounting II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- ECO105 - Principles of Macroeconomics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- ENT110 - Introduction to Entrepreneurship

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- BUS130 - Personal Finance
  OR
- BUS180 - Business Internship
  OR
- ACC137 - QuickBooks

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45 - 135
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select

- BUS200 - Principles of Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- ACC130 - Managerial Accounting

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- ECO110 - Principles of Microeconomics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- MTH120 - Elementary Statistics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- SPH101 - Public Speaking

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Total General Education Credits
0

Total Major Credits
0

Total Minor Credits
0

Total Elective Credits
0

AAS-BUS_OPMG - Operations Management and Supervision, AAS

Overview

Department(s)
Professional Studies

Degree Designation
Associate of Applied Science

Catalog Full Description
The Business Administration program is designed to provide students with the skills necessary for entry-level employment or advancement within a variety of career fields within the public and private sectors. The two-year program will prepare students for career opportunities as department and division managers, product managers, production line supervisors, assistant store managers, and entry-level banking and sales representatives. Students will receive training in the areas of accounting, marketing, management, economics, and finance. Students will round off their educational experience by completing general education courses including mathematics, social sciences, English, communications, and humanities.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Operations Management and Supervision, AAS- $9,643.00

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.

Campus Location
WSU Tech South – 3821 E. Harry, Wichita, KS 67218

Requirements

Simple Requisites

Program Requirements

Operations Management and Supervision, AAS
Type
Completion Requirement

Operations Management and Supervision Requirements

Complete ALL of the following Courses:

- OPM105 - Op Mgmt for Org Success - 3 Credits
- OPM115 - Introduction to Project Mgmt - 3 Credits
- ACC105 - Fundamentals of Accounting - 3 Credits
- ACC160 - Principles of Accounting I - 3 Credits
- ACC170 - Principles of Accounting II - 3 Credits
- BUS104 - Introduction to Business - 3 Credits
- BUS125 - Business Law - 3 Credits
- BUS140 - Principles of Marketing - 3 Credits
- BUS200 - Principles of Management - 3 Credits
- ENG101 - Composition I - 3 Credits
- ECO105 - Principles of Macroeconomics - 3 Credits
- ECO110 - Principles of Microeconomics - 3 Credits
- HIS120 - United States since 1865 - 3 Credits
- LEN100 - Lean for Operations - 3 Credits
- LGM101 - Principles Logistics & Supply - 3 Credits
- MTH112 - College Algebra - 3 Credits
- PSY101 - General Psychology - 3 Credits
- SPH101 - Public Speaking - 3 Credits

General Education Requirement

Earn at least 3 credits from the following:

- Humanities Elective

General Education Requirement

Earn at least 3 credits from the following:

- Science Elective

Entry Requirements

- 16 years of age
- Documentation of high school graduation or satisfaction of high school equivalency
- Meet entrance requirements for the english and math courses
- Complete college admissions documentation

Degree Maps

Degree Map Name
Operations Management and Supervision, AAS
Total Degree Map Credits
62
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	3

Requirement Select

- ACC105 - Fundamentals of Accounting

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- BUS104 - Introduction to Business

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- ENG101 - Composition I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- HIS120 - United States History since 1865

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- Humanities Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select

- OPM105 - Operations Management for Organizational Success

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- ACC160 - Principles of Accounting I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- BUS125 - Business Law

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- MTH112 - College Algebra

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- PSY101 - General Psychology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	5	5

Requirement Select
- Science Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	5
Contact Hours	5
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select
- ACC170 - Principles of Accounting II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- BUS140 - Principles of Marketing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- ECO105 - Principles of Macroeconomics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- LGM101 - Principles of Logistics and Supply Chain Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- SPH101 - Public Speaking

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	12	0

Requirement Select
- OPM115 - Introduction to Project Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- BUS200 - Principles of Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- ECO110 - Principles of Microeconomics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- LEN100 - Lean for Operations

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

AAS-CARP_ENT - Construction Technology, AAS

Overview

Department(s)
Applied Technologies

Degree Designation
Associate of Applied Science

Catalog Full Description
The Construction Technology program prepares students in the basic skills necessary for all occupations in construction. Students begin their studies in nine modules, which include; safety, math materials, hand and power tools, construction drawings, basic rigging, communication and employability skills. Student then advance to courses with provide hands- on application of technical knowledge and skills. In these courses students apply all aspects of carpentry and will receive instruction in technical mathematics, framing construction materials and selection; job estimating; blueprint reading, foundations and roughing -in, finish carpentry techniques and applicable codes and standards. The WSU Tech Construction Technology program is aligned with the National Center for Education Statistics CIP code 46.0201: Carpentry/Carpenter prepares individuals to apply technical knowledge and skills to lay out, cut, fabricate, erect, install, and repair wooden structures and fixtures, using hand and power tools. Includes instruction in technical mathematics, framing, construction materials and selection, job estimating, blueprint reading, foundations and roughing-in, finish carpentry techniques, and applicable codes and standards.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Construction Technology , AAS $13,861.00

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.

Campus Location
WSU Tech City Center – 301 S. Grove, Wichita, KS 67211, CTEC + WSU Tech – 1301 E. 27th Terrace, Pittsburg, KS 66762

Requirements

Simple Requisites

Program Requirements

Construction Technology, AAS
Type
Completion Requirement

Construction Technology Requirement

Complete ALL of the following Courses:

- CCP100 - Introductory Craft Skills - 3 Credits
- CCP108 - Construction Basics - 2 Credits
- CCP112 - Carpentry I - 3 Credits
- CCP122 - Carpentry II - 4 Credits
- CCP124 - Exterior Envelope - 3 Credits
- CCP128 - Interior Systems - 2 Credits
- CCP134 - Intro to Concrete Construction - 3 Credits
- CCP138 - Advanced Framing - 3 Credits
- CCP144 - Advanced Finish and Trim - 3 Credits
- CCP148 - Vertical & Horizontal Formwork - 3 Credits
- CCP154 - Finishing Concrete - 2 Credits
- CCP155 - FEMA Doors & Hardware - 1 Credits
- CCP168 - Equipment Operation - 3 Credits
- CCP172 - Fundamentals Crew Leadership - 2 Credits
- CCP180 - Cabinet Installation - 1 Credits
- CCP185 - Carpentry Internship I - 3 Credits
- CCP187 - Carpentry Internship II - 3 Credits
- SAF101 - Safety Orientation/OSHA 10 - 1 Credits
- ENG101 - Composition I - 3 Credits

General Education Requirement

Earn at least 3 credits from the following:

- Communication Elective

General Education Requirement

Earn at least 3 credits from the following:

- Humanities Elective

General Education Requirement

Earn at least 3 credits from the following:

- Math Elective

General Education Requirement

Earn at least 3 credits from the following:

- Social Sciences Elective

Entry Requirements

- Be 16 years of age or older
- Show documentation of high school graduation or satisfaction of high school equivalency prior to graduation from the program
- Meet entrance exam requirements for general education requirements
- Complete college admissions documentation

Degree Maps

Degree Map Name
Construction Technology, AAS
Total Degree Map Credits
60
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	19	3

Requirement Select

- CCP100 - Introductory Craft Skills

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- CCP108 - Construction Basics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select

- CCP112 - Carpentry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- CCP122 - Carpentry II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select
- CCP124 - Exterior Envelope

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- SAF101 - Safety Orientation/OSHA 10

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- Math Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	18	0

Requirement Select
- CCP128 - Interior Systems

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- CCP134 - Introduction to Concrete Construction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- CCP138 - Advanced Framing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- CCP144 - Advanced Finish and Trim

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- CCP148 - Vertical and Horizontal Formwork

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- CCP155 - FEMA Doors & Hardware

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- ENG101 - Composition I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	8	0

Requirement Select
- CCP154 - Finishing Concrete

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- CCP168 - Equipment Operation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- CCP172 - Fundamentals of Crew Leadership

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- CCP180 - Cabinet Installation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	9

Requirement Select
- CCP185 - Carpentry Internship I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	135
Clinical	-
Criticality	No

Requirement Select
- CCP187 - Carpentry Internship II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	135
Clinical	-
Criticality	No

Requirement Select
- Communication Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Humanities Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Social Sciences Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Total General Education Credits
0
Total Major Credits
0
Total Minor Credits
0
Total Elective Credits
0

Degree Map Name
Construction Technology (Masonry) , AAS
Total Degree Map Credits
60
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16	3

Requirement Select
- CCP100 - Introductory Craft Skills
- **AND** CCP108 - Construction Basics
- **AND** CCP112 - Carpentry I
- **AND** CCP122 - Carpentry II
- **AND** SAF101 - Safety Orientation/OSHA 10

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	13
Progress Credits	-
Contact Hours	255
Clinical	-
Criticality	No

Requirement Select
- Math Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	16	0

Requirement Select
- CCP134 - Introduction to Concrete Construction
- **AND** CCP123 - Masonry I
- **AND** CCP143 - Masonry Installation Techniques

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	13
Progress Credits	-
Contact Hours	345
Clinical	-
Criticality	No

Requirement Select
- ENG101 - Composition I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	11	3

Requirement Select
- CCP133 - Masonry II
- **AND** CCP159 - Masonry III

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	8
Progress Credits	-
Contact Hours	210
Clinical	-
Criticality	No

Requirement Select
- Communication Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	17	6

Requirement Select
- CCP169 - Masonry IV
- **AND** CCP179 - Advanced Masonry Laying Techniques

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	11
Progress Credits	-
Contact Hours	300
Clinical	-
Criticality	No

Requirement Select
- Humanities Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Social Sciences Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

AAS-CCMA_APP - Construction Technology Cabinet Maker Apprenticeship, AAS

Overview

Department(s)
Apprenticeship & Appl Learning

Degree Designation
Associate of Applied Science

Catalog Full Description
The Construction Technology Cabinet Maker Apprenticeship Apprenticeship Associate of Applied Science (AAS) degree is designed for individuals who have completed a registered apprenticeship program through an approved Plumber or Pipefitter training facility. Students receive 45 credits for prior learning based on their journeyman card and complete an additional 15 credit hours of general education to earn the degree. This program combines advanced technical training with foundational college coursework to support career growth and leadership opportunities in the skilled trades.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Campus Location
WSU Tech City Center – 301 S. Grove, Wichita, KS 67211

Requirements

Simple Requisites

Program Requirements

Construction Technology Cabinet Maker Apprenticeship, AAS
Type
Completion Requirement

Construction Technology Cabinet Maker Apprenticeship Requirements

Complete ALL of the following Courses:

- CCM225 - Con Tech Cabinet Maker App - 45 Credits
- ENG101 - Composition I - 3 Credits

General Education Requirement

Earn at least 15 credits from the following:

- Communication Elective
- Humanities Elective
- Math Elective
- Social Sciences Elective
- Science Elective

Entry Requirements

- Complete all admissions documentation
- Provide Cabinet Maker journeyman card
- Cabinet Maker transcript from approved training facility

Degree Maps

Degree Map Name
Untitled Degree Map
Total Degree Map Credits
0
Degree Map Effective Catalog Year
2026 -

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

AAS-CFLA_APP - Construction Technology Floor Layer Apprenticeship, AAS

Overview

Department(s)
Apprenticeship & Appl Learning

Degree Designation
Associate of Applied Science

Catalog Full Description
The Construction Technology Floor Layer Apprenticeship Apprenticeship Associate of Applied Science (AAS) degree is designed for individuals who have completed a registered apprenticeship program through an approved Floor Layer training facility. Students receive 45 credits for prior learning based on their journeyman card and complete an additional 15 credit hours of general education to earn the degree. This program combines advanced technical training with foundational college coursework to support career growth and leadership opportunities in the skilled trades.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Construction Technology Floor Layer Apprenticeship - $2,025.00

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.

Campus Location
WSU Tech City Center – 301 S. Grove, Wichita, KS 67211

Requirements

Simple Requisites

Program Requirements

Construction Technology Floor Layer Apprenticeship, AAS
Type
Completion Requirement

Construction Technology Floor Layer Apprenticeship Requirement

Complete ALL of the following Courses:

- CFL225 - Con Tech Floor Layer App - 45 Credits
- ENG101 - Composition I - 3 Credits

General Education Requirement

Earn at least 15 credits from the following:

- Communication Elective
- Humanities Elective
- Math Elective
- Social Sciences Elective
- Science Elective

Entry Requirements

- Complete all admissions documentation
- Provide Floor Layer journeyman card
- Floor Layer transcript from approved training facility

Degree Maps

Degree Map Name
Untitled Degree Map
Total Degree Map Credits
0
Degree Map Effective Catalog Year
2026 -

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

AAS-CLD_COMP - Cloud Computing/Cloud Application Development, AAS

Overview

Department(s)
Information Technology

Degree Designation
Associate of Applied Science

Catalog Full Description
Cloud based operations provide industries with enhanced up time and security as well as the ability to manage maintenance costs and scalability. In short, it is far more competitive to run applications on the cloud. In this hands-on learning path, students will start with the basic fundamental concepts of object-oriented programming, continuous integration continuous delivery, test-driven development, HTML/CSS/Web-Application development, cloud fundamentals, and multi-cloud development services. With these essential skills in place students will learn how to build a full-stack React web-application on Amazon Web Services (AWS); React is supported and maintained by Facebook for Facebook. With step-by-step guidance through the frontend and the backend students will cover all the different aspects of building their first full-stack React app on the cloud that will be accessible from any internet-facing device - including mobile devices. At the end of this learning path, students will convert their Reach application into a fully automated full-stack serverless cloud application that will be highly available, globally scalable, and on par with Facebook, Netflix, YouTube, or any other performant cloud application to date.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Cloud Computing/Cloud Application Development, AAS - $13,924.00

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

Campus Location
WSU Tech South – 3821 E. Harry, Wichita, KS 67218

Requirements

Simple Requisites

Program Requirements

Cloud Computing/Cloud Application Development, AAS
Type
Completion Requirement

Cloud Computer/Cloud Application Development Requirements

Complete ALL of the following Courses:

- CLD113 - Introduction to Python - 3 Credits
- CLD118 - Cloud Fundamentals - 3 Credits
- CLD121 - OOP (JavaScript) - 3 Credits
- CLD122 - Intro to Web Development - 3 Credits
- CLD126 - Test Driven Dvlmt (JavaScript) - 3 Credits
- CLD138 - OOP (Python) - 3 Credits
- CLD143 - Web App Dev I (HTML/CSS) - 3 Credits
- CLD152 - Web App Dev II (REACT) - 3 Credits
- CLD166 - Cloud App Dev I (REACT on AWS) - 3 Credits
- CLD168 - AWS Cloud Practitioner - 3 Credits
- CLD170 - Cloud App Dev II (Serverless) - 3 Credits
- CLD174 - Cloud Capstone - 3 Credits
  OR CLD175 - Info Technology Internship - 3 Credits
- ENG101 - Composition I - 3 Credits

Cloud Computing/Cloud Application Development Requirement

Earn at least 12 credits from the following:

- CLD129 - Progrm Foundations (Swift iOS) - 3 Credits
- CLD137 - C# Programming Language - 3 Credits
- CLD141 - Test Driven Develop (Python) - 3 Credits
- CLD147 - Website Production & Mgmt - 3 Credits
- CLD158 - Multi-Cloud Develop Services - 3 Credits
- CLD169 - Machine Learning and AI Fdn - 3 Credits
- INF105 - CompTIA A+ Core 1 - 3 Credits
- INF112 - Network Essentials - 3 Credits

General Education Requirement

Earn at least 3 credits from the following:

- Communication Elective

General Education Requirement

Earn at least 3 credits from the following:

- Humanities Elective

General Education Requirement

Earn at least 3 credits from the following:

- Math Elective

General Education Requirement

Earn at least 3 credits from the following:

- Social Sciences Elective

Degree Maps

Degree Map Name
AAS Cloud Computing/Cloud Application Development
Total Degree Map Credits
63
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	3

Requirement Select

- CLD113 - Introduction to Python

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- CLD118 - Cloud Fundamentals

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- CLD121 - Object-Oriented Programming (JavaScript)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- CLD138 - Object-Oriented Programming (Python)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- CLD126 - Test Driven Development (JavaScript)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- CLD168 - AWS Cloud Practitioner

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- Cloud Computing Electives

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Math Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Cloud Computing Electives

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	6

Requirement Select
- ENG101 - Composition I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	9	6

Requirement Select
- CLD122 - Introduction to Web Development

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- Cloud Computing Electives

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Communication Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	12	0

Requirement Select
- CLD143 - Web Application Development I (HTML/CSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- CLD152 - Web Application Development II (REACT)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- CLD166 - Cloud Application Development I (REACT on AWS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- CLD170 - Cloud Application Development II (Serverless REACT on AWS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	12	9

Requirement Select

- CLD174 - Cloud Capstone
  OR
- CLD175 - Information Technology Internship

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	90 - 135
Clinical	-
Criticality	No

Requirement Select

- Cloud Computing Electives

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Social Sciences Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Humanities Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

AAS-CLIM_ECT - Climate & Energy Control (HVAC), AAS

Overview

Department(s)
Applied Technologies

Degree Designation
Associate of Applied Science

Catalog Full Description
The Climate and Energy Control (HVAC) program prepares students for careers in both residential and commercial HVAC markets by offering technical training in electricity, heating, refrigeration, sheet metal fabrication, direct digital controls (DDC), and advanced HVAC applications. The program also includes an opportunity to obtain specialized skills in building automation. Designed for students who want to build on their existing Climate and Energy Control (HVAC) degree, Certificate C focuses on advanced building automation skills, including automation controls, building management systems, and data analytics for building performance. This program equips graduates with the technical expertise and industry-recognized credentials needed to succeed in an evolving and sustainable HVAC marketplace.he WSU Tech Climate and Energy Control (HVAC) program is aligned with the National Center for Education Statistics CIP code 47.0201: Heating, Air Conditioning, Ventilation and Refrigeration Maintenance Technology/ Technician prepares individuals to apply technical knowledge and skills to repair, install, service and maintain the operating condition of heating, air conditioning, and refrigeration systems. Includes instruction in diagnostic techniques, the use of testing equipment and the principles of mechanics, electricity, and electronics as they relate to the repair of heating, air conditioning and refrigeration systems.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Climate & Energy Control (HVAC), AAS - $14,468.00

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.

Campus Location
WSU Tech City Center – 301 S. Grove, Wichita, KS 67211

Requirements

Simple Requisites

Program Requirements

Climate & Energy Control (HVAC)
Type
Completion Requirement

Climate & Energy Control (HVAC)

Complete ALL of the following Courses:

- ACR112 - HVAC Fundamentals - 4 Credits
- ACR113 - Electrical Fundamentals - 4 Credits
- ACR116 - Workplace Skills - 1 Credits
- ACR117 - Intro Mechanical Refrigeration - 4 Credits
- ACR118 - Electrical Fundamentals II - 3 Credits
- ACR119 - Adv Electrical Theory for HVAC - 2 Credits
- ACR121 - Heating System Fundamentals - 3 Credits
- ACR122 - Heating System Fundamentals II - 3 Credits
- ACR123 - Heat Loads and Duct Sizing - 2 Credits

- ACR124 - Advanced Heating Systems - 3 Credits
- ACR126 - EPA 608 - 1 Credits
- ACR127 - Heat Pumps - 4 Credits
- ACR128 - Commercial HVAC - 4 Credits
- ACR129 - Commercial HVAC Lab - 4 Credits
- ACR140 - Sheet Metal Fabrication I - 3 Credits
- ENG101 - Composition I - 3 Credits
- SAF101 - Safety Orientation/OSHA 10 - 1 Credits

General Education Requirement

Earn at least 3 credits from the following:

- Communication Elective

General Education Requirement

Earn at least 3 credits from the following:

- Humanities Elective

General Education Requirement

Earn at least 3 credits from the following:

- Math Elective

General Education Requirement

Earn at least 3 credits from the following:

- Social Sciences Elective

Entry Requirements

- Be 16 years of age or older
- Meet entrance exam requirements for general education requirements
- Complete college admissions documentation

Degree Maps

Degree Map Name
Climate & Energy Control (HVAC), AAS
Total Degree Map Credits
61
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	24	3

Requirement Select

- ACR112 - HVAC Fundamentals

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select

- ACR113 - Electrical Fundamentals

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select

- ACR116 - Workplace Skills

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select

- ACR117 - Intro to Mechanical Refrigeration

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select

- ACR122 - Heating System Fundamentals II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- ACR126 - EPA 608

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select

- ACR140 - Sheet Metal Fabrication I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select

- SAF101 - Safety Orientation/OSHA 10

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select

- Math Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	29	3

Requirement Select

- ACR118 - Electrical Fundamentals II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select

- ACR121 - Heating System Fundamentals

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select

- ACR123 - Heat Loads and Duct Sizing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- ACR124 - Advanced Heating Systems

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- ACR127 - Heat Pumps

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select
- ACR128 - Commercial HVAC

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- ACR129 - Commercial HVAC Lab

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	120
Clinical	-
Criticality	No

Requirement Select
- ENG101 - Composition I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- Social Sciences Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	8	6

Requirement Select
- ACR119 - Advanced Electrical Theory for HVAC

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- Communication Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Humanities Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Degree Map Name

Climate & Energy Control (HVAC), AAS - Automation

Total Degree Map Credits

65

Degree Map Effective Catalog Year

2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	24	3

Requirement Select

- ACR112 - HVAC Fundamentals

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select

- ACR113 - Electrical Fundamentals

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select

- ACR116 - Workplace Skills

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select

- ACR117 - Intro to Mechanical Refrigeration

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select

- ACR122 - Heating System Fundamentals II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- ACR126 - EPA 608

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select

- ACR210 - Automation Controls & Sensors

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- SAF101 - Safety Orientation/OSHA 10

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- Math Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	30	3

Requirement Select
- ACR118 - Electrical Fundamentals II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- ACR121 - Heating System Fundamentals

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- ACR124 - Advanced Heating Systems

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- ACR127 - Heat Pumps

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select
- ACR128 - Commercial HVAC

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- ACR129 - Commercial HVAC Lab

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	120
Clinical	-
Criticality	No

Requirement Select
- ACR220 - Building Management Systems (BMS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- ENG101 - Composition I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- Social Sciences Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	11	6

Requirement Select
- ACR119 - Advanced Electrical Theory for HVAC

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- ACR230 - Data Analytics for Building Performance

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- Communication Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Humanities Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

AAS-COMPOSIT - Composite Technology, AAS

Overview

Department(s)
Aviation

Degree Designation
Associate of Applied Science

Catalog Full Description
This program prepares students to be successful in todays highly competitive world of aviation composite technologies. Supported by a solid background in composite theory, students will apply their knowledge in a state of the art composite laboratory at the National Center for Aviation Training. A well-rounded curriculum allows students hands-on experience in all the stages of the aircrafts life from design to production and repair. Coursework in the program includes CATIA, composite fabrication, composite repair and lean manufacturing. Students will complete their educational experience with general education courses in five areas of study including English, Communications, Humanities, Mathematics, and Social Sciences.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Composite Technology, AAS - $16,077.00

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

Campus Location
WSU Tech Main Campus - National Center for Aviation Training (NCAT) - 4004 N. Webb Rd., Wichita, KS 67226

Requirements

Simple Requisites

Program Requirements

Composite Technology, AAS
Type
Completion Requirement

Composite Technology Requirements

Complete ALL of the following Courses:

- CFT101 - Introduction To Composites - 2 Credits
- CFT106 - Composite Finish Trim - 2 Credits
- CFT107 - Composite Assembly - 2 Credits
- CFT130 - Composite Fab Methods/Applicat - 2 Credits
- CFT140 - Composite Inspection - 2 Credits
- CFT141 - Disassemble & Damage Removal - 3 Credits
- CFT142 - Composite Repair - 4 Credits
- CFT143 - Complex Composite Repairs - 3 Credits
- CFT144 - Electrical Bonding Repair - 1 Credits
- AVC102 - Precision Instruments - 1 Credits
- AVC104 - Quality Control Concepts - 1 Credits
- AVC105 - Aircraft Familiarization - 1 Credits
- AVC107 - Fundamentals for Aerospace Mfg - 1 Credits
- AVC108 - Aircraft Systems & Components - 4 Credits
- AVC110 - Safety/OSHA 10 - 1 Credits
- AVC112 - Blueprint Reading - 2 Credits
- AVC117 - Hand & Power Tools - 4 Credits
- AVC120 - Introduction to Sealing - 1 Credits
- AVC125 - Bonding and Grounding - 1 Credits
- AVC140 - Electrical Bonding & Grounding - 1 Credits
- LEN100 - Lean for Operations - 3 Credits
- ENG101 - Composition I - 3 Credits

Composite Technology Requirement

Earn at least 3 credits from the following:

- Composite Technology Elective

General Education Requirement

Earn at least 3 credits from the following:

- Communication Elective

General Education Requirement

Earn at least 3 credits from the following:

- Humanities Elective

General Education Requirement

Earn at least 3 credits from the following:

- Math Elective

General Education Requirement

Earn at least 3 credits from the following:

- Social Sciences Elective

Entry Requirements

- Be 18 years of age or older

Degree Maps

Degree Map Name
Composite Technology, AAS
Total Degree Map Credits
60
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	18	0

Requirement Select

- CFT101 - Introduction To Composites

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- CFT106 - Composite Finish Trim

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- CFT107 - Composite Assembly

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- CFT130 - Composite Fabrication Methods/Applications

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- AVC102 - Precision Instruments

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select

- AVC110 - Safety/OSHA 10

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select

- AVC112 - Blueprint Reading

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select

- AVC117 - Hand & Power Tools

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select

- AVC120 - Introduction to Sealing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select

- AVC140 - Electrical Bonding & Grounding

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	14	6

Requirement Select

- AVC104 - Quality Control Concepts

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select

- AVC105 - Aircraft Familiarization

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select

- AVC107 - Fundamentals for Aerospace Manufacturing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select

- AVC108 - Aircraft Systems & Components

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- AVC125 - Bonding and Grounding

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select

- Humanities Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Math Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	9	6

Requirement Select

- ENG101 - Composition I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- Composite Technology Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Communication Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	19	3

Requirement Select
- CFT140 - Composite Inspection

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- CFT141 - Disassemble & Damage Removal Techniques

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- CFT142 - Composite Repair

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	120
Clinical	-
Criticality	No

Requirement Select
- CFT143 - Complex Composite Repairs

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- CFT144 - Electrical Bonding Repair

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- LEN100 - Lean for Operations

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- Social Sciences Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

AAS-CRM_JUST - Criminal Justice, AAS

Overview

Department(s)
Professional Studies

Degree Designation
Associate of Applied Science

Catalog Full Description
This program is uniquely designed to prepare students for a successful career in law enforcement with a special focus on urban policing, diversity and criminal justice in the 21st century. The criminal justice field affords a multitude of career possibilities with graduates having the capability to serve as law enforcement officers, probation and parole officers, correctional officers, and other specialties at all levels of government. The WSU Tech Criminal Justice program is aligned with the National Center for Education Statistics CIP code 43.0107: Criminal Justice/ Police Science prepares individuals to perform the duties of police and public security officers, including patrol and investigative activities, traffic control, crowd control and public relations, witness interviewing, evidence collection and management, basic crime prevention methods, weapon and equipment operation and maintenance, report preparation and other routine law enforcement responsibilities.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Criminal Justice, AAS - $9,973.00

Technical Studies: Criminal Justice/Business Administration, AAS - $10,328.00

Technical Studies: Criminal Justice/EMS, AAS - $12,723.00

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

Campus Location
WSU Tech South – 3821 E. Harry, Wichita, KS 67218

Requirements

Simple Requisites

Program Requirements

Criminal Justice, AAS
Type
Completion Requirement

Criminal Justice Requirements

Complete ALL of the following Courses:

- CRJ101 - Intro to Criminal Justice - 3 Credits
- CRJ105 - Criminal Investigation - 3 Credits
- CRJ110 - Criminal Law - 3 Credits
- CRJ115 - Agency Administration - 3 Credits
- CRJ120 - Juvenile Delinquency & Justice - 3 Credits
- CRJ125 - Law Enforcement Ops & Proc - 3 Credits
- CRJ130 - Criminal Procedures - 3 Credits
- CRJ135 - Criminal Just Interview & Rpt - 3 Credits
- CRJ140 - Prof Responsibility Crim Just - 3 Credits
- CRJ145 - Corrections - 3 Credits
- CRJ155 - Policing Diverse Cultures - 3 Credits
- CRJ160 - Internship in Criminal Justice - 3 Credits
- CRJ180 - KLETC/Law Enf Acad Trng - 12 Credits
- CPR001 - CPR For Healthcare Providers - 1 Credits
- ENG101 - Composition I - 3 Credits
- HIS120 - United States since 1865 - 3 Credits

General Education Requirement

Earn at least 3 credits from the following:

- Communication Elective

General Education Requirement

Earn at least 3 credits from the following:

- Humanities Elective

General Education Requirement

Earn at least 3 credits from the following:

- Math Elective

General Education Requirement

Earn at least 3 credits from the following:

- Social Sciences Elective

Entry Requirements
Be 17 years of age or older, Complete the Accuplacer entry exams with minimum scores of 224 in Reading and Writing and Accuplacer QAS of 230 or higher. Or students can complete ACT entry exam with a minimum score of 18+ in Reading and English. ACT score of 19+ is required in math.

Degree Maps

Degree Map Name
Criminal Justice, AAS
Total Degree Map Credits
67
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	13	3

Requirement Select

- CRJ101 - Introduction to Criminal Justice

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- CRJ105 - Criminal Investigation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- CPR001 - CPR For Healthcare Providers

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- ENG101 - Composition I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- Social Sciences Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	6

Requirement Select
- CRJ110 - Criminal Law

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- CRJ130 - Criminal Procedures

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- CRJ140 - Professional Responsibility in Criminal Justice

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- Communication Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Humanities Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	3	3

Requirement Select
- Math Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	12	0

Requirement Select
- CRJ115 - Agency Administration

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- CRJ120 - Juvenile Delinquency and Justice

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- CRJ125 - Law Enforcement Operations and Procedures

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- HIS120 - United States History since 1865

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	12	0

Requirement Select
- CRJ135 - Criminal Justice Interview and Report Writing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- CRJ145 - Corrections

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- CRJ155 - Policing Diverse Cultures

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- CRJ160 - Internship in Criminal Justice

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Summer	12	0

Requirement Select
- CRJ180 - KLETC or Equivalent Law Enforcement Academy Training

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	12
Progress Credits	-
Contact Hours	540
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

AAS-CUL_ARTS - Culinary Arts, AAS

Overview

Department(s)
Hospitality & Culinary Arts

Degree Designation
Associate of Applied Science

Catalog Full Description
The Culinary Arts program offers a comprehensive degree intended to provide students the knowledge and practical skills for success in the Culinary Industry. In the first half of the program, students will complete a core set of courses designed to provide a solid foundation of industry skills. Course topics include sanitation and safety, fundamental skills in culinary basics including rudimentary cooking, baking and knife skills as well as culinary nutrition and modern banquet cookery. In the second half of the program, the student builds upon this foundation with intermediate and advanced culinary courses. These courses include knowledge acquisition and skill development for innovation and sustainability in the culinary industry as well as a broad selection of elective courses for students to gain comprehensive instruction and experience in preparing, tasting, serving and evaluating traditional and regional dishes of the world. Course work also includes topics in Advanced Baking including Chocolate and Confectionary Techniques, Breads and Rolls, Cakes and Desserts. Students enrolled in the program will participate in a Bistro Practicum course which allows them to apply classroom and lab experiences in the real world.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Culinary Arts, AAS - $17,028.00

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.

Campus Location
WSU Tech National Institute for Culinary and Hospitality Education (NICHE) – 124 S. Broadway, Wichita, KS 67202

Requirements

Simple Requisites

Program Requirements

Culinary Arts, AAS
Type
Completion Requirement

Culinary Arts Requirements

Complete ALL of the following Courses:
- CUL105 - Culinary Fundamentals - 3 Credits
- CUL115 - Culinary Nutrition - 3 Credits
- CUL120 - Modern Banquet Cookery - 3 Credits
- CUL125 - Baking & Pastry Skill Dvlpmnt - 3 Credits
- CUL130 - Culinary Innovation & Sustain - 3 Credits
- CUL133 - Bistro Practicum I - 3 Credits
- CUL135 - Cuisines and Cultures of U.S. - 3 Credits
- CUL145 - Cuisine/Culture Mediterranean - 3 Credits
- CUL150 - Cuisine & Culture North Europe - 3 Credits
- CUL155 - Cuisines and Cultures of Asia - 3 Credits
- HEM105 - Sanitation and Safety - 1 Credits
- HEM115 - Intro to Hospitality Industry - 3 Credits
- ENG101 - Composition I - 3 Credits
- SPH111 - Interpersonal Communication - 3 Credits

Culinary Arts Requirement

Earn at least 12 credits from the following:
- Culinary Arts Elective

General Education Requirement

Earn at least 3 credits from the following:
- Humanities Elective

General Education Requirement

Earn at least 3 credits from the following:

- Math Elective

General Education Requirement

Earn at least 3 credits from the following:

- Social Sciences Elective

Degree Maps

Degree Map Name
Culinary Arts, AAS
Total Degree Map Credits
61
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16	3

Requirement Select

- CUL105 - Culinary Fundamentals

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select

- CUL115 - Culinary Nutrition

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select

- CUL120 - Modern Banquet Cookery

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select

- HEM105 - Sanitation and Safety

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select

- SPH111 - Interpersonal Communication

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- Math Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	3

Requirement Select

- CUL125 - Baking & Pastry Skill Development

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- CUL133 - Bistro Practicum I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select
- Culinary Arts Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- HEM115 - Introduction to the Hospitality Industry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- ENG101 - Composition I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	6	6

Requirement Select
- Culinary Arts Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Culinary Arts Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	9	6

Requirement Select
- CUL130 - Culinary Innovation & Sustainability

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- Culinary Arts Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Social Sciences Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	3

Requirement Select
- CUL135 - Cuisines and Cultures of the United States

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- CUL145 - Cuisines and Cultures of the Mediterranean

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- CUL150 - Cuisines and Cultures of Northern Europe

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- CUL155 - Cuisines and Cultures of Asia

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- Humanities Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

AAS-DES_ARCH - Architectural Design Technology, AAS

Overview

Department(s)
Manufacturing

Degree Designation
Associate of Applied Science

Catalog Full Description
Architectural Design Technology is an interdisciplinary curriculum which prepares graduates to for careers in commercial and/or residential architectural fields. In a state of the art computer lab at the National Center for Aviation Training (NCAT) students will solve the real world architectural problems they will encounter in the field. Students will complete a core set of courses which include hands on application in the latest computer aided drafting software as well as CATIA. Additional course topics include Machine Drafting and Design and Materials and Processes. Students will round off their educational experience by completing 15 credits of general education courses in five areas of study including mathematics, humanities, social sciences, English and communications.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Architectural Design Technology, AAS - $13,999.00

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.

Campus Location
WSU Tech Main Campus - National Center for Aviation Training (NCAT) - 4004 N. Webb Rd., Wichita, KS 67226

Requirements

Simple Requisites

Program Requirements

Architectural Design Technology, AAS
Type
Completion Requirement

Architectural Design Technology Requirement

Complete ALL of the following Courses:

- MCD101 - Introduction to CAD I - 3 Credits
- MCD102 - Introduction to CAD II - 2 Credits
- MCD104 - Blueprint Reading for Drafting - 2 Credits
- MCD106 - Precision Measuring - 2 Credits
- MCD112 - Industrial Mat & Processes - 2 Credits
- MCD114 - Arch Drafting & Design - 3 Credits
- MCD115 - Machine Drafting & Design - 3 Credits
- MCD121 - Descriptive Geometry - 3 Credits
- MCD124 - Advanced AutoCAD - 4 Credits
- MCD132 - Basic Chief Arch/Arch Desktop - 3 Credits
- MCD134 - Adv Chief Arch/Arch Desktop - 3 Credits
- MCD164 - Residential Dsgn Autodesk Rev - 4 Credits
- MCD205 - Residential Drafting - 3 Credits
- MCD224 - Commercial Design Autodesk Rev - 3 Credits
- ENG101 - Composition I - 3 Credits
- PDV115 - Work Ethics - 2 Credits

Architectural Design Technology Requirement

Complete 1 - 2 course(s) and earn exactly 3 credits from the following:

- MCD130 - Basic Solidworks - 3 Credits
- MCD133 - Advanced Solidworks - 3 Credits
- MCD137 - Introduction to 3D Printing - 2 Credits
- MCD140 - Drafting Technology Intern - 4 Credits
- MCD156 - Interm Measuring Instruments - 2 Credits
- MCD210 - Advanced Measuring - 3 Credits
- CAT101 - CATIA Part Design & Sketcher - 4 Credits

General Education Requirement

Earn at least 3 credits from the following:

- Communication Elective

General Education Requirement

Earn at least 3 credits from the following:

- Humanities Elective

General Education Requirement

Earn at least undefined credits from the following:

- Math Elective

Entry Requirements

- Be 16 years of age or older
- Complete admissions documents

Degree Maps

Degree Map Name
Architectural Design Technology, AAS
Total Degree Map Credits
60
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	12	0

Requirement Select

- MCD101 - Introduction to CAD I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select

- MCD102 - Introduction to CAD II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- MCD104 - Blueprint Reading for Drafting

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select

- MCD106 - Precision Measuring

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select

- MCD121 - Descriptive Geometry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	17	6

Requirement Select

- MCD112 - Industrial Materials & Processes

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- MCD115 - Machine Drafting & Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select

- MCD124 - Advanced AutoCAD

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select

- Architectural Design Technology Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- PDV115 - Work Ethics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select

- Math Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	16	3

Requirement Select
- MCD114 - Architectural Drafting & Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- MCD164 - Residential Design Using Autodesk Revit

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select
- MCD224 - Commercial Design Using Autodesk Revit

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- ENG101 - Composition I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- Social Sciences Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	6

Requirement Select
- MCD134 - Advanced Chief Architect/Architectural Desktop

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- MCD132 - Basic Chief Architect/Architectural Desktop

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- MCD205 - Residential Drafting

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- Communication Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Humanities Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

AAS-DIG_MRKT - Digital Marketing, AAS

Overview

Department(s)
Professional Studies

Degree Designation
Associate of Applied Science

Catalog Full Description
The Digital Marketing Program provides graduates with the skills necessary to succeed in the specialized realm of digital commerce. The program coursework combines traditional marketing skills with the specialized technical skills required to develop first-class digital marketing content. In scenario-based coursework students will create and apply digital marketing strategies that reflect real-world situations. Topics will include digital strategy, web development, and analytics as well as digital marketing, multimedia, SEO, and SEM techniques. All students will graduate with a professional portfolio, and students enrolled in the Associate of Applied Science degree program will participate in an internship/capstone course while completing 17 hours of general education.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Digital Marketing, AAS $11,878.00

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.

Campus Location
WSU Tech South – 3821 E. Harry, Wichita, KS 67218

Requirements

Simple Requisites

Program Requirements

Digital Marketing, AAS
Type
Completion Requirement

Digital Marketing Requirements

Complete ALL of the following Courses:
- DMK110 - Introduction to Media Arts - 3 Credits
- DMK120 - Basic Digital Editing - 3 Credits
- DMK125 - Community Building and Mgmt - 3 Credits
- DMK135 - Social Media Marketing & Mgmt - 3 Credits
- DMK140 - Intro to Audio/Visual Prod - 3 Credits
- DMK150 - Search Optimization & Market - 3 Credits
- DMK155 - Photography Fundamentals - 2 Credits
- DMK160 - Introduction to Analytics - 3 Credits
- DMK163 - Intro to Digital Advertising - 3 Credits
- DMK170 - Digital Marketing Capstone - 4 Credits
  OR DMK175 - Digital Marketing Internship - 4 Credits
- BUS135 - Intro to Public Relations - 3 Credits
  OR ESP150 - Esports Event Mgmt and Prod - 3 Credits
- BUS140 - Principles of Marketing - 3 Credits
- CLD122 - Intro to Web Development - 3 Credits
- CLD147 - Website Production & Mgmt - 3 Credits
- ENG101 - Composition I - 3 Credits
- ENG120 - Composition II - 3 Credits
- OPM115 - Introduction to Project Mgmt - 3 Credits
- SPH101 - Public Speaking - 3 Credits

General Education Requirement

Earn at least 3 credits from the following:
- Humanities Elective

General Education Requirement

Earn at least 3 credits from the following:
- Math Elective

Entry Requirements
Be 16 years of age or older, Documentation of high school graduation or satisfaction of high school equivalency certificate requirements, or students currently enrolled in high school or GED program and have attained junior status, Completion of application and related procedures, meet entrance exams assessments: Accuplacer Reading & Accuplacer Writing at 237 and ALEKS PPL math at 30.

Degree Maps

Degree Map Name
Digital Marketing, AAS
Total Degree Map Credits
60
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	18	3

Requirement Select

- DMK110 - Introduction to Media Arts

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- DMK120 - Basic Digital Editing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- BUS135 - Introduction to Public Relations

  OR
- ESP150 - Esports Event Management and Production

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- OPM115 - Introduction to Project Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- ENG101 - Composition I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- Humanities Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	12	0

Requirement Select

- DMK125 - Community Building and Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select

- DMK140 - Introduction to Audio/Visual Production

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- BUS140 - Principles of Marketing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- ENG120 - Composition II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	6	3

Requirement Select
- SPH101 - Public Speaking

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- Math Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	12	0

Requirement Select
- DMK135 - Social Media Marketing and Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- DMK150 - Search Engine Optimization & Marketing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- DMK163 - Introduction to Digital Advertising

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- CLD122 - Introduction to Web Development

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	12	0

Requirement Select

- DMK155 - Photography Fundamentals

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- DMK160 - Introduction to Analytics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select

- DMK170 - Digital Marketing Capstone
  OR
- DMK175 - Digital Marketing Internship

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	180
Clinical	-
Criticality	No

Requirement Select

- CLD147 - Website Production & Management (Word Press)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

AAS-EDU_CATN - Para Educator, AAS

Overview

Department(s)
Professional Studies

Degree Designation
Associate of Applied Science

Catalog Full Description
The Para Educator program is designed to equip graduates with the skills needed to pursue a career in elementary education. The coursework provides a strong academic background in English, humanities, science, and social sciences. Building on this academic core, the program will provide a solid foundation in classroom management, assessment, instructional technology, along with experiential learning opportunities. Upon completion, graduates will be prepared to enter the workforce as a paraprofessional or transfer to a Baccalaureate degree program in Elementary Education.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Para Educator, AAS - $9,793.00

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.

Campus Location
WSU Tech South – 3821 E. Harry, Wichita, KS 67218

Requirements

Simple Requisites

Program Requirements

Para Educator, AAS
Type
Completion Requirement

Para Educator Requirements

Complete ALL of the following Courses:

- EDU120 - Introduction to Teaching - 3 Credits
- EDU140 - Children's Literature - 3 Credits
- EDU160 - Educational Technology - 3 Credits
- EDU180 - Educating Exceptional Students - 3 Credits
- EDU200 - Classroom Management - 3 Credits
- EDU210 - Assessing Student Learning - 3 Credits
- EDU220 - Field Experience - 1 Credits
- EDU235 - Foundations of Writing - 3 Credits
- EDU245 - Foundations in Early Literacy - 3 Credits
- ART100 - Art Appreciation - 3 Credits
- BIO110 - Principles of Biology - 5 Credits
- ENG101 - Composition I - 3 Credits
- ENG120 - Composition II - 3 Credits
- HIS110 - United States History to 1877 - 3 Credits
- MTH112 - College Algebra - 3 Credits
- POL101 - American Government - 3 Credits
- PSY101 - General Psychology - 3 Credits
- PSY120 - Developmental Psychology - 3 Credits
- SOC101 - Principles of Sociology - 3 Credits
- SPH101 - Public Speaking - 3 Credits

Degree Maps

Degree Map Name
Para Educator, AAS
Total Degree Map Credits
60
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	0

Requirement Select
- EDU120 - Introduction to Teaching

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- EDU180 - Educating Exceptional Students

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- ENG101 - Composition I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- PSY101 - General Psychology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- SPH101 - Public Speaking

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select
- EDU140 - Children's Literature

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- EDU160 - Educational Technology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- ART100 - Art Appreciation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- ENG120 - Composition II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- MTH112 - College Algebra

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	14	0

Requirement Select
- EDU200 - Classroom Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- EDU245 - Foundations in Early Literacy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- POL101 - American Government

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- BIO110 - Principles of Biology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	0

Requirement Select
- EDU210 - Assessing Student Learning

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- EDU235 - Foundations of Writing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- HIS110 - United States History to 1877

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- PSY120 - Developmental Psychology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- SOC101 - Principles of Sociology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Summer	1	0

Requirement Select
- EDU220 - Field Experience

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	25
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

AAS-ELEC_TEC - Electrical Technology

Overview

Department(s)
Applied Technologies

Degree Designation
Associate of Applied Science

Catalog Full Description
The Electrical Technology program offers a comprehensive curriculum designed to prepare graduates to take the Journeyman Electrician licensure exam. This program prepares students to apply technical knowledge and skills in the installation, operation, maintenance, and repair of electric apparatus and systems. Students will gain a solid foundation in electronics, electrical systems, wiring methods, power transmission, safety practices, and applicable codes and standards. The program encompasses a wide range of courses that cover essential topics in the field of electrical technology. Students will develop a strong understanding of AC/DC circuits, print reading, residential and commercial wiring, motor controls, low voltage wiring, programmable logic controllers, and fire alarm, emergency, and health care systems. They will also explore the emerging fields of solar and wind power generation. In addition to the specialized courses, students will complete 15 credits of general education courses to enhance their communication, critical thinking, and problem-solving skills.

The WSU Tech Electrical Technology program is aligned with the National Center for Education Statistics CIP code 46.0302: Electrician prepares individuals to apply technical knowledge and skills to install, operate, maintain, and repair electric apparatus and systems such as residential, commercial, and industrial electric-power wiring; and DC and AC motors, controls, and electrical distribution panels. Includes instruction in the principles of electronics and electrical systems, wiring, power transmission, safety, industrial and household appliances, job estimation, electrical testing and inspection, and applicable codes and standards.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Electrical Technology, AAS -$13,961

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.

Campus Location
WSU Tech City Center – 301 S. Grove, Wichita, KS 67211

Requirements

Simple Requisites

Program Requirements

Electrical Technology, AAS
Type
Completion Requirement

Electrical Technology Requirements

Complete ALL of the following Courses:

- ELE110 - Print Reading - 2 Credits
- ELE120 - AC/DC Circuits - 4 Credits
- ELE130 - Commercial Wiring I - 4 Credits
- ELE132 - Commercial Wiring Lab - 4 Credits
- ELE135 - Low Voltage Wiring - 2 Credits
- ELE140 - Motor Controls - 2 Credits
- ELE150 - National Electrical Code I - 4 Credits
- ELE160 - National Electrical Code II - 4 Credits
- ELE170 - Programmable Logic Controllers - 2 Credits
- ELE180 - Residential Wiring I - 4 Credits
- ELE182 - Residential Wiring Lab - 4 Credits
- SAF135 - Safety/OSHA 30 - 3 Credits
- ENG101 - Composition I - 3 Credits

General Education Requirement

Earn at least 3 credits from the following:

- Communication Elective

General Education Requirement

Earn at least 3 credits from the following:

- Humanities Elective

General Education Requirement

Earn at least 3 credits from the following:

- Math Elective

General Education Requirement

Earn at least 3 credits from the following:

- Social Sciences Elective

Electrical Technology Requirement

Earn at least 6 credits from the following:

- Electrical Technology Electives

Entry Requirements

- Be 16 years of age or older
- Meet entrance exam requirements for general education requirements
- Complete college admissions documentation

Degree Maps

Degree Map Name
Electrical Technology, AAS
Total Degree Map Credits
63 - 60
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	23	0

Requirement Select

- ELE110 - Print Reading

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select

- ELE120 - AC/DC Circuits

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- ELE135 - Low Voltage Wiring

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select

- ELE150 - National Electrical Code I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- ELE180 - Residential Wiring I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- ELE182 - Residential Wiring Lab

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	120
Clinical	-
Criticality	No

Requirement Select

- SAF135 - Safety/OSHA 30

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	19	3

Requirement Select

- ELE130 - Commercial Wiring I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- ELE132 - Commercial Wiring Lab

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	120
Clinical	-
Criticality	No

Requirement Select

- ELE140 - Motor Controls

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select

- ELE160 - National Electrical Code II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- ELE170 - Programmable Logic Controllers

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- Humanities Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	9 - 6	9

Requirement Select
- Electrical Technology Electives

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6 - 3
Progress Credits	6
Contact Hours	6
Clinical	-
Criticality	No

Requirement Select
- Math Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	12	12

Requirement Select
- Electrical Technology Electives

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	6
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- ENG101 - Composition I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- Communication Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Social Sciences Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

AAS-ENG_DES - Engineering Design Technology, AAS

Overview

Department(s)
Manufacturing

Degree Designation
Associate of Applied Science

Catalog Full Description
Engineering Design Technology is an interdisciplinary curriculum that prepares graduates for various positions in manufacturing design. All students will complete a core set of courses selected to provide a well-rounded understanding of design. Topics include hands-on instruction in current technical competency areas, including Computer Aided Drafting (CAD), 3-D solid modeling, and CATIA. CATIA courses are taught with the National Institute of Aviation Research (NIAR).

Students will round off their educational experience by completing 20 credits of general education courses in five areas of study, including mathematics, humanities, natural sciences, social sciences, English, and communications.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Engineering Design Technology, TC - $15,683.00

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.

Campus Location
WSU Tech Main Campus - National Center for Aviation Training (NCAT) - 4004 N. Webb Rd., Wichita, KS 67226

Requirements

Simple Requisites

Program Requirements

Engineering Design Technology, AAS
Type
Completion Requirement

Engineering Design Technology Requirement

Complete ALL of the following Courses:

- MCD101 - Introduction to CAD I - 3 Credits
- MCD102 - Introduction to CAD II - 2 Credits
- MCD104 - Blueprint Reading for Drafting - 2 Credits
- MCD106 - Precision Measuring - 2 Credits
- MCD115 - Machine Drafting & Design - 3 Credits
- MCD121 - Descriptive Geometry - 3 Credits
- MCD124 - Advanced AutoCAD - 4 Credits
- MCD137 - Introduction to 3D Printing - 2 Credits
- CAT101 - CATIA Part Design & Sketcher - 4 Credits
- CAT103 - CATIA 3D Tolerancing & Annot - 4 Credits
- CAT105 - CATIA Assembly Design - 4 Credits
- CAT110 - CATIA Wireframe & Surfaces - 4 Credits
- ENG101 - Composition I - 3 Credits
- PDV115 - Work Ethics - 2 Credits

Engineering Design Technology Requirement

Complete ANY of the following Course Sets:

- Engineering Design Elective

General Education Requirement

Earn at least 3 credits from the following:

- Communication Elective

General Education Requirement

Earn at least 3 credits from the following:

- Humanities Elective

General Education Requirement

Earn at least 3 credits from the following:

- Math Elective

General Education Requirement

Earn at least 3 credits from the following:

- Social Sciences Elective

General Education Requirement

Earn at least 5 credits from the following:

- Science Elective

Entry Requirements

- Be 16 year of age or older
- Complete all admissions documents

Degree Maps

Degree Map Name
Engineering Design Technology, AAS
Total Degree Map Credits
62
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	12	0

Requirement Select

- MCD101 - Introduction to CAD I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select

- MCD102 - Introduction to CAD II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- MCD104 - Blueprint Reading for Drafting

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- MCD106 - Precision Measuring

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- MCD121 - Descriptive Geometry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	14	3

Requirement Select
- MCD115 - Machine Drafting & Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- MCD124 - Advanced AutoCAD

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select
- MCD137 - Introduction to 3D Printing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- Engineering Design Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PDV115 - Work Ethics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	8	8

Requirement Select
- Math Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Science Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	5
Contact Hours	5
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	14	3

Requirement Select
- CAT101 - CATIA Part Design & Sketcher

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select
- CAT105 - CATIA Assembly Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select
- ENG101 - Composition I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- Social Sciences Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	14	6

Requirement Select
- CAT103 - CATIA 3D Tolerancing & Annotations

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select
- CAT110 - CATIA Wireframe & Surfaces

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select
- Communication Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Humanities Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

AAS-HLTH_ADM - Healthcare Administration & Management, AAS

Overview

Department(s)
Nursing

Degree Designation
Associate of Applied Science

Catalog Full Description
The AAS degree in Healthcare Administration and Management is a two-year program emphasizing Practical Nursing standards, then focusing on the necessary skills required for an entry level administrative/management position in healthcare. This program provides additional skills to enhance the success of the practical nurse certificate. It will include study skills, time management, social awareness skills, an introduction to critical thinking, APA format, review of PN policies and procedures, and learning in a hybrid/online format. The WSU Tech Practical Nurse program is aligned with the National Center for Education Statistics CIP code 51.3901: Licensed Practical/Vocational Nurse Training: prepares individuals to assist in providing general nursing care under the direction of a registered nurse, physician or dentist. Includes instruction in taking patient vital signs, applying sterile dressings, patient health education, and assistance with examinations and treatment.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Healthcare Administration & Management, AAS - $18,165

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.

Campus Location
WSU Tech South – 3821 E. Harry, Wichita, KS 67218

Requirements

Simple Requisites

Program Requirements

Healthcare Administration & Management, AAS
Type
Completion Requirement

Healthcare Administration & Management Requirements

Complete ALL of the following Courses:
- PNR119 - KSPN Pharm and Safe Med Admin - 2 Credits
- PNR120 - KSPN Foundations of Nursing - 4 Credits
- PNR121 - KSPN Foundations Nrsng Clin - 2 Credits
- PNR128 - KSPN Nursing Care of Adults I - 5 Credits
- PNR129 - KSPN Care of Adults I Clinical - 3 Credits
- PNR130 - KSPN Maternal Child Nursing - 2 Credits
- PNR131 - KSPN Mtrnl Child Nrs Clinical - 1 Credits
- PNR135 - KSPN Mental Health Nursing - 2 Credits
- PNR138 - KSPN Nursing Care of Adults II - 5 Credits
- PNR139 - KSPN Care of Adults II Clin - 2 Credits
- PNR141 - KSPN Care of Aging Adults - 2 Credits
- PNR166 - KSPN Leadership, Roles & Issue - 2 Credits
- PNR170 - Healthcare Practice Management - 3 Credits
- PNR180 - Healthcare Issues - 3 Credits
- BIO110 - Principles of Biology - 5 Credits
  OR CHM110 - General Chemistry - 5 Credits
- BIO150 - Human Anatomy & Physiology - 5 Credits
- ENG101 - Composition I - 3 Credits
- PSY101 - General Psychology - 3 Credits
- PSY120 - Developmental Psychology - 3 Credits

Healthcare Administration & Management Requirement

Earn at least 4 credits from the following:
- CNA101 - Certified Nurse Aide - 5 Credits
  OR BIO160 - Microbiology - 5 Credits
  OR PNR175 - Healthcare Management Research - 4 Credits

General Education Requirement

Earn at least 3 credits from the following:
- Communication Elective

General Education Requirement

Earn at least 3 credits from the following:
- Math Elective

Entry Requirements
- Be 18 years of age or older
- Complete a Nursing Program application
- current Kansas Certified Nurse Aide (CNA)
- Complete NLN NEX Score of 138 or higher and Verbal NLN NEX Score of 70 or higher

List additional Program Admission Requirements
Program Admissions Prerequisites

- Principles of Biology Or General Chemistry - BIO 110 requires Minimum Score of "B" within 5 years of completion date
- Anatomy and Physiology - Minimum Score of "B" within 5 years of completion date
- General Psychology - Minimum Score of "B"
- Developmental Psychology - Minimum Score of "B"
- ORI 1015 PN Information Session

Upon Admission to the Program

- Pay for and pass a criminal background check and drug screen test at an agency designated by WSUTech.
- Complete required health examinations and immunizations at their own expense, including COVID-19

Degree Maps

Degree Map Name
Healthcare Administration & Management, AAS
Total Degree Map Credits
67
Degree Map Effective Catalog Year
2026 -
Degree Map Narrative
The following courses must be completed prior to acceptance to the Healthcare Administration & Management Program: BIO 150, PSY 101, PSY 120, and BIO 110 or CHM 110

Year	Semester	Actual Credits	Progress Credits
-	-	16	0

Requirement Select
- BIO110 - Principles of Biology
  OR
- CHM110 - General Chemistry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select
- BIO150 - Human Anatomy & Physiology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select
- PSY101 - General Psychology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- PSY120 - Developmental Psychology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16	0

Requirement Select
- PNR119 - KSPN Fundamentals of Pharmacology and Safe Medication Administration

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- PNR120 - KSPN Foundations of Nursing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- PNR121 - KSPN Foundations of Nursing Clinicals

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select

- PNR128 - KSPN Nursing Care of Adults I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select

- PNR129 - KSPN Nursing Care of Adults I Clinical

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	135
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	16	0

Requirement Select

- PNR130 - KSPN Maternal Child Nursing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select

- PNR131 - KSPN Maternal Child Nursing Clinical

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- PNR135 - KSPN Mental Health Nursing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select

- PNR138 - KSPN Nursing Care of Adults II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select

- PNR139 - KSPN Nursing Care of Adults II Clinical

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select
- PNR141 - KSPN Care of Aging Adults

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- PNR166 - KSPN Leadership, Roles, and Issues

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	6	3

Requirement Select
- ENG101 - Composition I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- Communication Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	-	13	7

Requirement Select
- PNR170 - Healthcare Practice Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- PNR180 - Healthcare Issues

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- Healthcare Administration & Management Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	4
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Math Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

AAS-HSP_EVNT - Hospitality and Events Management, AAS

Overview

Department(s)
Hospitality & Culinary Arts

Degree Designation
Associate of Applied Science

Catalog Full Description
The Hospitality and Events Management program offers a multi-disciplinary degree intended to provide students with the knowledge and practical skills for success in the Hospitality Industry. In the first half of the programs, students will complete a core set of courses designed to provide a solid foundation of industry skills. The program offers two distinct tracks including Food and Beverage Management and Food Business Management. Course work varies depending on the selected track but includes topics such as Wine Fundamentals, Culinary Fundamentals, Introduction to Entrepreneurship, Event Catering Strategies. Students in each track will participate in an internship course which allows them to apply classroom and lab experiences in the real world.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Food Business Management, AAS $14,913.00

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.

Campus Location
WSU Tech National Institute for Culinary and Hospitality Education (NICHE) – 124 S. Broadway, Wichita, KS 67202

Requirements

Simple Requisites

Program Requirements

Food Business Management, AAS
Type
Completion Requirement

Food Business Management Requirements

Complete ALL of the following Courses:

- HEM105 - Sanitation and Safety - 1 Credits
- HEM110 - Hospitality Math - 3 Credits
- HEM115 - Intro to Hospitality Industry - 3 Credits
- HEM140 - Hospitality Financial Mgmt - 3 Credits
- HEM143 - Intro to Food Business Mgmt - 5 Credits
- HEM233 - Restaurant Incubator - 3 Credits
- HEM235 - Hospitality Management Intern - 3 Credits
- CUL105 - Culinary Fundamentals - 3 Credits
- CUL115 - Culinary Nutrition - 3 Credits
- CUL120 - Modern Banquet Cookery - 3 Credits
- CUL125 - Baking & Pastry Skill Dvlpmnt - 3 Credits
- CUL133 - Bistro Practicum I - 3 Credits
- BUS104 - Introduction to Business - 3 Credits
- BUS140 - Principles of Marketing - 3 Credits
- ENT110 - Intro to Entrepreneurship - 3 Credits
- ENG101 - Composition I - 3 Credits

General Education Requirement

Earn at least 3 credits from the following:

- Communication Elective

General Education Requirement

Earn at least 3 credits from the following:

- Humanities Elective

General Education Requirement

Earn at least 3 credits from the following:

- Math Elective

General Education Requirement

Earn at least 3 credits from the following:

- Social Sciences Elective

Entry Requirements

- Be 16 years of age or older
  Students enrolled in the Food and Beverage track of the Hospitality and Events Management program must be 21 years of age before enrolling in the 200 level courses
- Completion of application and related procedures

Degree Maps

Degree Map Name
Food Business Management
Total Degree Map Credits
60
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	13	3

Requirement Select

- HEM105 - Sanitation and Safety

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select

- CUL105 - Culinary Fundamentals

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select

- CUL115 - Culinary Nutrition

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select

- CUL120 - Modern Banquet Cookery

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select

- Math Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	18	0

Requirement Select

- HEM110 - Hospitality Math

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- HEM115 - Introduction to the Hospitality Industry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- CUL125 - Baking & Pastry Skill Development

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select

- CUL133 - Bistro Practicum I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select

- BUS104 - Introduction to Business

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- ENG101 - Composition I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	6	0

Requirement Select

- HEM140 - Hospitality Financial Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- HEM235 - Hospitality Management Internship

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	135
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	14	6

Requirement Select

- HEM143 - Introduction to Food Business Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select

- BUS140 - Principles of Marketing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- Communication Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Social Sciences Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	9	3

Requirement Select
- HEM233 - Restaurant Incubator

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select
- ENT110 - Introduction to Entrepreneurship

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- Humanities Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

AAS-IND_AUTO - Industrial Machine/ Maintenance Technology, AAS

Overview

Department(s)
Manufacturing

Degree Designation
Associate of Applied Science

Catalog Full Description
Industrial Machine/Maintenance Technology program provides the solid foundational knowledge and skills necessary to succeed in the mechanical and automated manufacturing environment. Graduates will learn to analyze, troubleshoot, and align mechanical and automated industrial machinery. Program course work includes electronics, industrial wiring, motor controls, programmable logic controls, instrumentation, industrial fluid power, manufacturing automation concepts, and robotics. Students will round off their educational experience by completing general education courses in five areas of study including mathematics, humanities, and social sciences, English, and communications. The WSU Tech Industrial Machine/ Maintenance Technology program is aligned with the National Center for Education Statistics CIP code 47.0303: Industrial Mechanics and Maintenance Technology/Technician prepares individuals to apply technical knowledge and skills to repair and maintain industrial machinery and equipment such as cranes, pumps, engines and motors, pneumatic tools, conveyor systems, production machinery, marine deck machinery, and steam propulsion, refinery, and pipeline-distribution systems.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Industrial Machine/Maintenance Technology - $14,462.00

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.

Campus Location
WSU Tech City Center – 301 S. Grove, Wichita, KS 67211

Requirements

Simple Requisites

Program Requirements

Industrial Machine/Maintenance Technology, AAS
Type
Completion Requirement

Industrial Machine/Maintenance Technology Requirement

Complete ALL of the following Courses:
- IND109 - Programmable Logic Controls - 4 Credits
- IND111 - Foundations of Manufacturing - 2 Credits
- IND115 - Industrial Safety - 1 Credits
- IND116 - Advanced Motor Controls - 3 Credits
- IND117 - Variable Speed Motor Control - 3 Credits
- IND121 - Mechanical Systems Reliability - 3 Credits
- IND122 - AC/DC Circuits - 4 Credits
- IND130 - Mechanical Systems - 3 Credits
- IND131 - Industrial Prog Logic Controls - 3 Credits
- IND132 - Industrial Process Control - 3 Credits
- IND137 - Industrial Schematics - 2 Credits
- IND143 - Electrical System Troubleshoot - 3 Credits
- IND147 - Fluid Power I - 3 Credits
- IND150 - Manufacturing Equipment & Tool - 2 Credits
- IND152 - Predictive Maintenance - 2 Credits
- IND157 - Preventative Maintenance - 2 Credits
- AVC110 - Safety/OSHA 10 - 1 Credits
- ENG101 - Composition I - 3 Credits
- PDV115 - Work Ethics - 2 Credits
- SPH111 - Interpersonal Communication - 3 Credits

Industrial Machine/Maintenance Technology Requirement

Earn at least 3 credits from the following:
- IND139 - CNC Operation for Maintenance - 3 Credits
- IND160 - Fluid Power II - 3 Credits
- IND165 - Industrial Process Control II - 3 Credits
- IND170 - CNC Installation - 2 Credits

- IND175 - Advanced CNC Maintenance App - 4 Credits
- ROB100 - Introduction to Robotics - 3 Credits

General Education Requirement

Earn at least 3 credits from the following:

- Humanities Elective

General Education Requirement

Earn at least 3 credits from the following:

- Math Elective

General Education Requirement

Earn at least 3 credits from the following:

- Social Sciences Elective

Entry Requirements

- Be 16 years of age or older
- Complete the admissions documentation

Degree Maps

Degree Map Name
Industrial Machine/Maintenance Technology, AAS
Total Degree Map Credits
64
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	18	3

Requirement Select

- IND111 - Foundations of Manufacturing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- IND115 - Industrial Safety

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select

- IND117 - Variable Speed Motor Control

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- IND122 - AC/DC Circuits

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select

- IND150 - Manufacturing Equipment and Tools

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- AVC110 - Safety/OSHA 10

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- PDV115 - Work Ethics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- Math Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select
- IND109 - Programmable Logic Controls

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select
- IND116 - Advanced Motor Controls

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- IND131 - Industrial Programmable Logic Controls (PLC)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select
- IND137 - Industrial Schematics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- IND143 - Electrical System Troubleshooting

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	6	3

Requirement Select
- IND147 - Fluid Power I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- Industrial Machine/Maintenance Technology Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	13	0

Requirement Select
- IND121 - Mechanical Systems Reliability

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- IND130 - Mechanical Systems

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- IND132 - Industrial Process Control

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- IND152 - Predictive Maintenance

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- IND157 - Preventative Maintenance

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	12	6

Requirement Select
- ENG101 - Composition I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- SPH111 - Interpersonal Communication

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- Humanities Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Social Sciences Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

AAS-INF_TECH - Computer Support Specialist, AAS

Overview

Department(s)
Information Technology

Degree Designation
Associate of Applied Science

Catalog Full Description

Computer Support Specialist

The Computer Support Specialist program prepares individuals to provide technical assistance, support, and advice to computer users to troubleshoot software, hardware and networking problems. The program includes instruction in computer concepts, information systems, networking, security, operating systems, the Internet, software applications, help desk concepts, effective written and verbal communication skills, team management, project management, customer service and problem solving skills. Students are prepared to enter the workforce as a Computer User Support Specialist, Help Desk Technician, Technical Support Specialist or IT Support Representative. The WSU Tech Computer Support Specialist program is aligned with the National Center for Education Statistics CIP code 11.1006: Computer Support Specialist prepares individuals to provide technical assistance, support, and advice to computer users to help troubleshoot software and hardware problems. Includes instruction in computer concepts, information systems, networking, operating systems, computer hardware, the Internet, software applications, help desk concepts and problem solving, and principles of customer service.

Computer Support Specialist with Emphasis in Cyber Security

The Computer Support Specialist with Emphasis in Cyber Security associate of applied science (AAS) program prepares students to work in the field of Cyber Security. Learning opportunities develop academic, technical and professional knowledge and skill required for job acquisition. The program is comprised of a set of core courses in information technology fundamentals and advanced courses focused on Cyber law/ethics, server security, digital forensics, and advanced network security. Program electives provide students the opportunity to concentrate on additional IT technical skills. Program graduates may also receive a Computer Support Specialist Emphasis in Cyber Security technical certificate. The WSU Tech Computer Support Specialist with Emphasis in Cyber Security program is aligned with the National Center for Education Statistics CIP code 11.1006: Computer Support Specialist prepares individuals to provide technical assistance, support, and advice to computer users to help troubleshoot software and hardware problems. Includes instruction in computer concepts, information systems, networking, operating systems, computer hardware, the Internet, software applications, help desk concepts and problem solving, and principles of customer service.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Computer Support Specialist $14,527.00

Computer Support Specialist Emphasis in Cyber Security $14,413.00

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.

Campus Location
WSU Tech South – 3821 E. Harry, Wichita, KS 67218

Requirements

Simple Requisites

Program Requirements

Computer Support Specialist, AAS
Type
Completion Requirement

Computer Support Specialist

Complete ALL of the following Courses:
- INF105 - CompTIA A+ Core 1 - 3 Credits
- INF110 - CompTIA A+ Core 2 - 3 Credits
- INF112 - Network Essentials - 3 Credits
- INF115 - Network+ Part I - 3 Credits
- INF116 - Network+ Part II - 3 Credits
- INF120 - Security+ - 3 Credits
- INF134 - Server + - 3 Credits
- INF139 - Cybersecurity Essentials - 3 Credits
- INF142 - Cloud+ - 3 Credits
- INF144 - Virtualization - 3 Credits
- INF164 - Switching, Routing, & Wireless - 3 Credits
- INF167 - Enterprise Network, Sec & Auto - 3 Credits
- INF172 - Multi-Cloud Networking - 3 Credits
- INF174 - Info Technology Capstone - 3 Credits
  OR INF175 - Info Technology Internship - 3 Credits
- CED115 - Computer Applications - 3 Credits

- ENG101 - Composition I - 3 Credits

Computer Support Specialist Requirement

Earn at least 6 credits from the following:

- Computer Support Specialist Elective

General Education Requirement

Earn at least 3 credits from the following:

- Communication Elective

General Education Requirement

Earn at least 3 credits from the following:

- Math Elective

General Education Requirement

Earn at least 3 credits from the following:

- Social Sciences Elective

Computer Support Specialist with Emphasis in Cyber Security, AAS
Type
Completion Requirement

Computer Support Specialist with Emphasis in Cyber Security

Complete ALL of the following Courses:

- INF105 - CompTIA A+ Core 1 - 3 Credits
- INF110 - CompTIA A+ Core 2 - 3 Credits
- INF112 - Network Essentials - 3 Credits
- INF113 - Introduction to Programming - 3 Credits
- INF115 - Network+ Part I - 3 Credits
- INF116 - Network+ Part II - 3 Credits
- INF120 - Security+ - 3 Credits
- INF134 - Server + - 3 Credits
- INF136 - Introduction to PowerShell - 3 Credits
- INF139 - Cybersecurity Essentials - 3 Credits
- INF154 - Ethical Hacker - 3 Credits
- INF160 - Server Security - 3 Credits
- INF165 - Advanced Cyber Security - 3 Credits
- INF174 - Info Technology Capstone - 3 Credits
  OR INF175 - Info Technology Internship - 3 Credits
- CED115 - Computer Applications - 3 Credits
- ENG101 - Composition I - 3 Credits

Computer Support Specialist with Emphasis in Cyber Security Requirement

Earn at least 6 credits from the following:

- Computer Support Specialist with Emphasis in Cyber Security Elective

General Education Requirement

Earn at least 3 credits from the following:

- Communication Elective

General Education Requirement

Earn at least 3 credits from the following:

- Math Elective

General Education Requirement

Earn at least 3 credits from the following:

- Social Sciences Elective

Entry Requirements

- Be 16 years of age or older
- Completion of application and related procedures

Degree Maps

Degree Map Name
Computer Support Specialist With Emphasis in Cyber Security, AAS
Total Degree Map Credits
63
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	3

Requirement Select

- INF105 - CompTIA A+ Core 1

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select

- INF110 - CompTIA A+ Core 2

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- INF112 - Network Essentials

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- INF139 - Cybersecurity Essentials

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- Math Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select
- INF115 - Network+ Part I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- INF116 - Network+ Part II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- INF120 - Security+

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- INF134 - Server +

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- ENG101 - Composition I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	9	3

Requirement Select
- INF160 - Server Security

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- INF165 - Advanced Cyber Security

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- Communication Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	12	3

Requirement Select

- INF113 - Introduction to Programming

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- INF136 - Introduction to PowerShell

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select

- INF154 - Ethical Hacker

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- Computer Support Specialist with Emphasis in Cyber Security Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	12	9

Requirement Select

- INF174 - Information Technology Capstone

OR

- INF175 - Information Technology Internship

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	135
Clinical	-
Criticality	No

Requirement Select

- Computer Support Specialist with Emphasis in Cyber Security Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Humanities Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Social Sciences Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Degree Map Name
Computer Support Specialist, AAS
Total Degree Map Credits
63
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	3

Requirement Select
- INF105 - CompTIA A+ Core 1

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- INF110 - CompTIA A+ Core 2

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- INF112 - Network Essentials

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- INF139 - Cybersecurity Essentials

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- Math Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select
- INF115 - Network+ Part I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- INF116 - Network+ Part II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- INF120 - Security+

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- INF134 - Server +

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- ENG101 - Composition I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	9	3

Requirement Select
- INF164 - Switching, Routing, and Wireless Essentials

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- INF167 - Enterprise Networking, Security, and Automation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- Communication Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	12	3

Requirement Select
- INF142 - Cloud+

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- INF144 - Virtualization

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- INF172 - Multi-Cloud Networking

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- Computer Support Specialist Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	12	6

Requirement Select
- INF174 - Information Technology Capstone

OR
- AAD120 - Data Visualization

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60 - 135
Clinical	-
Criticality	No

Requirement Select
- CED115 - Computer Applications

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- Computer Support Specialist Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Social Sciences Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

AAS-INT_DES - Interior Design, AAS

Overview

Department(s)
Professional Studies

Degree Designation
Associate of Applied Science

Catalog Full Description
This Interior Design program provides competency-based training in research techniques, problem solving, proficiencies and presentation skills required to be a successful professional interior designer. The program focuses on creativity and critical thinking. Students learn the basics of interior design, including the principles and elements of design; blueprint reading; building technology; color theory; materials; fabrics; history of furniture and architecture; lighting technologies; drawing for interiors; and business law for interiors. Students also gain practical experience, and through out the program, they build a professional portfolio.Students will round off their educational experience by completing 15 credits of general education courses in five areas of study including mathematics, natural and social sciences, English and communications. Students completing the degree are eligible to take the national exam to become a licensed interior designer after appropriate completion of work experience as required by the National Council of Interior Design Qualifications (NCIDQ).

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Interior Design, AAS - $13,355.00

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.

Campus Location
WSU Tech South – 3821 E. Harry, Wichita, KS 67218

Requirements

Simple Requisites

Program Requirements

Interior Design, AAS
Type
Completion Requirement

Interior Design Requirements

Complete ALL of the following Courses:

- INT101 - Interior Design Fundamentals - 3 Credits
- INT105 - BP Reading for Interior Design - 3 Credits
- INT110 - Color Theory - 3 Credits
- INT126 - Textiles - 3 Credits
- INT127 - Matrls Interior Environments - 3 Credits
- INT141 - History of Furniture and Arch - 5 Credits
- INT155 - Lighting Technologies - 3 Credits
- INT160 - Design Studio I - 3 Credits
- INT165 - Design Studio II - 3 Credits
- INT166 - AutoCAD for Interior Design - 5 Credits
- INT168 - Basic Chief Architect Interior - 3 Credits
- INT170 - Business Pract & Portfolio Dev - 4 Credits
- INT173 - Design Studio III - 3 Credits
- INT190 - Drafting for Interiors - 3 Credits
- INT192 - Perspective Drawing - 3 Credits
- INT193 - Rendering for Interior Design - 3 Credits
- INT196 - Interior Design Codes & Stand - 3 Credits
- INT218 - Kitchen & Bath Design - 3 Credits
- ART100 - Art Appreciation - 3 Credits
- CED115 - Computer Applications - 3 Credits
- ENG101 - Composition I - 3 Credits
- SPH101 - Public Speaking - 3 Credits

General Education Requirement

Earn at least 3 credits from the following:

- Math Elective

Entry Requirements
Be 16 years of age or older, Show documentation of high school graduation or satisfaction of high school equivalency prior to graduation from the program

Degree Maps

Degree Map Name
Interior Design
Total Degree Map Credits
74
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	12	0

Requirement Select

- INT101 - Interior Design Fundamentals

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select

- INT105 - Blueprint Reading for Interior Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- INT110 - Color Theory

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- INT190 - Drafting for Interiors

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	14	0

Requirement Select
- INT141 - History of Furniture & Architecture

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	120
Clinical	-
Criticality	No

Requirement Select
- INT155 - Lighting Technologies

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- INT193 - Rendering for Interior Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- INT218 - Kitchen & Bath Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	9	0

Requirement Select
- ART100 - Art Appreciation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- CED115 - Computer Applications

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- ENG101 - Composition I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	17	0

Requirement Select
- INT126 - Textiles

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- INT160 - Design Studio I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select
- INT165 - Design Studio II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select
- INT166 - AutoCAD for Interior Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	120
Clinical	-
Criticality	No

Requirement Select
- INT196 - Interior Design Codes & Standards

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	16	0

Requirement Select
- INT127 - Materials for Interior Environments

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- INT168 - Basic Chief Architect for Interior Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- INT170 - Business Practices & Portfolio Development

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select
- INT173 - Design Studio III

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select
- INT192 - Perspective Drawing for Interior Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Summer	6	3

Requirement Select
- SPH101 - Public Speaking

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- Math Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

AAS-IRON_TCH - Iron Worker Apprenticeship, AAS

Overview

Department(s)
Apprenticeship & Appl Learning

Degree Designation
Associate of Applied Science

Catalog Full Description
The Iron Worker Apprenticeship Associate of Applied Science (AAS) degree is designed for individuals who have completed a registered apprenticeship program through an approved Ironwork training facility. Students receive 45 credits for prior learning based on their journeyman card and complete an additional 15 credit hours of general education to earn the degree. This program combines advanced technical training with foundational college coursework to support career growth and leadership opportunities in the skilled trades.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Campus Location
WSU Tech City Center – 301 S. Grove, Wichita, KS 67211

Requirements

Simple Requisites

Program Requirements

Ironworkers Apprenticeship, AAS
Type
Completion Requirement

Iron Worker Apprenticeship Requirements

Complete ALL of the following Courses:
- IWT225 - Ironworker Apprenticeship - 45 Credits
- ENG101 - Composition I - 3 Credits

General Education Requirement

Earn at least 15 credits from the following:

- Communication Elective
- Humanities Elective
- Math Elective
- Science Elective
- Social Sciences Elective

Entry Requirements
Complete all college admissions documents

Journeyman Card

AAS-LSC_MGMT - Logistics and Supply Chain Management, AAS

Overview

Department(s)
Professional Studies

Degree Designation
Associate of Applied Science

Catalog Full Description
In this program students learn the fundamental principles of logistic and transportation. Students study the procurement, movement, storage and processing of materials and information across the entire supply chain. Students will study the process from the acquisition of raw materials and components through manufacturing to delivery of finished products to end users. Special attention is given to the roles of technology and customer service in the supply chain. Additional courses in project and business management, ethics and 15 credits of general education will provide student with the depth and breadth of knowledge needed to succeed in this growing field.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Logistics and Supply Chain Management, AAS - $11,557.00

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.

Campus Location
WSU Tech South – 3821 E. Harry, Wichita, KS 67218

Requirements

Simple Requisites

Program Requirements

Logistics and Supply Chain Managment, AAS
Type
Completion Requirement

Logistics and Supply Chain Management Requirements

Complete ALL of the following Courses:

- LGM101 - Principles Logistics & Supply - 3 Credits
- LGM102 - Inventory Control - 3 Credits
- LGM103 - Contracts and Freight Claims - 3 Credits
- LGM105 - Warehouse Management - 3 Credits
- LGM106 - Transportation & Traffic Mgmt - 3 Credits
- LGM107 - Introduction to Purchasing - 3 Credits
- LGM108 - International Logistics - 3 Credits
- LGM150 - Supply Chain Analytics - 3 Credits
- LGM190 - Logistics & Supply Internship - 3 Credits
  OR LGM196 - Capstone in Logistics & Supply - 3 Credits
- BUS104 - Introduction to Business - 3 Credits
- ENG101 - Composition I - 3 Credits
- OPM115 - Introduction to Project Mgmt - 3 Credits
- PHL110 - Ethics - 3 Credits

Logistics and Supply Chain Management Requirement

Earn at least 9 credits from the following:

- Logistics and Supply Chain Management Elective

General Education Requirement

Earn at least 3 credits from the following:

- Communication Elective

General Education Requirement

Earn at least 3 credits from the following:

- Humanities Elective

General Education Requirement

Earn at least 3 credits from the following:

- Math Elective

General Education Requirement

Earn at least 3 credits from the following:

- Social Sciences Elective

Entry Requirements
Be 16 years of age or older, Documentation of high school graduation or satisfaction of high school equivalency certificate requirements, or students currently enrolled in high school or GED program and have attained junior status, Completion of application and related procedures

Degree Maps

Degree Map Name
Logistics and Supply Chain Management, AAS
Total Degree Map Credits
69
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	12	0

Requirement Select

- LGM101 - Principles of Logistics and Supply Chain Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- LGM102 - Inventory Control

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- BUS104 - Introduction to Business

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- ENG101 - Composition I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	12	3

Requirement Select

- LGM103 - Contracts and Freight Claims

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- LGM150 - Supply Chain Analytics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- OPM115 - Introduction to Project Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- Humanities Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	9	9

Requirement Select
- Communication Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Logistics and Supply Chain Management Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	6
Contact Hours	6
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	12	3

Requirement Select
- LGM105 - Warehouse Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- LGM106 - Transportation and Traffic Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- PHL110 - Ethics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- Math Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	9

Requirement Select
- LGM107 - Introduction to Purchasing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- LGM108 - International Logistics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- Social Sciences Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Logistics and Supply Chain Management Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	6
Contact Hours	6
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Summer	9	6

Requirement Select
- Logistics and Supply Chain Management Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	6
Contact Hours	6
Clinical	-
Criticality	No

Requirement Select
- LGM190 - Logistics and Supply Chain Internship

OR
- LGM196 - Capstone in Logistics & Supply Chain Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45 - 125
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

AAS-MACH_TEC - Machining Technology (Machining & Manufacturing Technology), AAS

Overview

Department(s)
Manufacturing

Degree Designation
Associate of Applied Science

Catalog Full Description
This program gives the students the opportunity to gain skills, knowledge, and abilities in various machining processes and procedures. A significant emphasis is placed on CNC machining, including 3, 4, and 5-axis milling and CNC lathe. Classroom and laboratory instruction in safety, precision measuring, geometric dimension and tolerancing, and metrology is available. Students will enhance their competencies by gaining multi-machine setup and operations skills and robotic collaborative assist technologies, including machine tending and automatic part movement. Students will also gain advanced machining experience that includes hardened or exotic materials. Students will round out their experience by completing 15 credits of general education courses. The WSU Tech Machining Technology (Machining & Manufacturing Technology)program is aligned with the National Center for Education Statistics CIP code 48.0501: Machine Tool Technology/Machinist prepares individuals to apply technical knowledge and skills to plan, manufacture, assemble, test, and repair parts, mechanisms, machines, and structures in which materials are cast, formed, shaped, molded, heat treated, cut, twisted, pressed, fused, stamped or worked.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Machining Technology (Machining & Manufacturing Technology), AAS -$15,174.00

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.

Campus Location
WSU Tech Main Campus - National Center for Aviation Training (NCAT) - 4004 N. Webb Rd., Wichita, KS 67226

Requirements

Simple Requisites

Program Requirements

Machining Technology (Machining & Manufacturing Technology),AAS Type
Completion Requirement

Machining Technology (Machining & Manufacturing Technology) Requirements

Complete ALL of the following Courses:
- MMG113 - Print Reading - 3 Credits
- MMG116 - Quality Control & Inspection - 1 Credits
- MMG130 - Bench Work - 1 Credits
- MMG131 - Metallurgy - 1 Credits
- MMG132 - Machine Tool Processes - 1 Credits
- MMG135 - Machining Fundamentals - 3 Credits
- MMG140 - Metrology - 4 Credits
- MMG154 - Multi-Cell Operations - 4 Credits
- MMG155 - CNC Lathe - 3 Credits

- MMG156 - CNC Operations - 3 Credits
- MMG160 - CNC Milling I - 3 Credits
- MMG164 - Advanced Machining Processes - 3 Credits
- MMG170 - Mastercam Mill 2 Axis - 4 Credits
- MMG173 - G D & T for Machining - 3 Credits
- MMG180 - Mastercam 4 & 5 Axis Mill - 4 Credits
- MMG184 - Multi-Axis Milling - 4 Credits
- AVC110 - Safety/OSHA 10 - 1 Credits
- ENG101 - Composition I - 3 Credits
- MCD106 - Precision Measuring - 2 Credits
- PDV115 - Work Ethics - 2 Credits

General Education Requirement

Complete ANY of the following Course Sets:

- Communication Elective

General Education Requirement

Complete ANY of the following Course Sets:

- Humanities Elective

General Education Requirement

Complete ANY of the following Course Sets:

- Math Elective

General Education Requirement

Complete ANY of the following Course Sets:

- Social Sciences Elective

Entry Requirements
Be 16 years of age or older

Degree Maps

Degree Map Name
Machining Technology (Machining & Manufacturing Technology), AAS
Total Degree Map Credits
65
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	20	0

Requirement Select

- MMG113 - Print Reading

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- MMG116 - Quality Control & Inspection

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select

- MMG131 - Metallurgy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select

- MMG135 - Machining Fundamentals

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select

- MMG155 - CNC Lathe

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- MMG156 - CNC Operations

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- MMG160 - CNC Milling I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- AVC110 - Safety/OSHA 10

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- PDV115 - Work Ethics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	18	0

Requirement Select
- MMG130 - Bench Work

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- MMG140 - Metrology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select
- MMG170 - Mastercam Mill 2 Axis

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select
- MMG184 - Multi-Axis Milling

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select

- MCD106 - Precision Measuring

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select

- ENG101 - Composition I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	6	6

Requirement Select

- Humanities Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Social Sciences Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select

- MMG132 - Machine Tool Processes

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select

- MMG154 - Multi-Cell Operations

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select

- MMG164 - Advanced Machining Processes

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select

- MMG173 - G D & T for Machining

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- MMG180 - Mastercam 4 & 5 Axis Mill

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	6	6

Requirement Select
- Communication Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Math Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Total General Education Credits
0

Total Major Credits
0

Total Minor Credits
0

Total Elective Credits
0

AAS-MAINT_TC - Aviation Maintenance Technology, AAS

Overview

Department(s)
Aviation

Degree Designation
Associate of Applied Science

Catalog Full Description
This program meets the requirements for students to take the exam for the airframe and powerplant mechanic certificate. The certificate authorizes the holder to approve aircraft that has undergone inspection or maintenance for return to service. This curriculum is approved by the Federal Aviation Administration. Graduates from this program are in demand not only in the field of aviation but in other fields that require a high degree of mechanical knowledge.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Aviation Maintenance Technology, AAS - $32,801.00

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.

Campus Location
WSU Tech Main Campus - National Center for Aviation Training (NCAT) - 4004 N. Webb Rd., Wichita, KS 67226

Requirements

Simple Requisites

Program Requirements

Aviation Maintenance Technology, AAS
Type
Completion Requirement

Aviation Maintenance Technology Requirements

Complete ALL of the following Courses:
- AMT187 - General I - 4 Credits
- AMT188 - General II - 4 Credits
- AMT189 - General III - 5 Credits
- AMT190 - General IV - 5 Credits
- AMT233 - Airframe I - 4 Credits
- AMT234 - Airframe II - 5 Credits
- AMT235 - Airframe III - 5 Credits
- AMT236 - Airframe IV - 5 Credits
- AMT237 - Airframe V - 5 Credits
- AMT238 - Airframe VI - 5 Credits
- AMT239 - Airframe VII - 5 Credits
- AMT253 - Powerplant I - 4 Credits
- AMT254 - Powerplant II - 5 Credits
- AMT255 - Powerplant III - 5 Credits
- AMT256 - Powerplant IV - 6 Credits
- AMT257 - Powerplant V - 5 Credits
- ENG101 - Composition I - 3 Credits

General Education Requirement

Complete ANY of the following Course Sets:
- Communication Elective

General Education Requirement

Complete ANY of the following Course Sets:
- Humanities Elective

General Education Requirement

Complete ANY of the following Course Sets:
- Math Elective

General Education Requirement

Complete ANY of the following Course Sets:

- Social Sciences Elective

Entry Requirements
Be 16 years of age or older, Show documentation of high school graduation or satisfaction of high school equivalency prior to graduation from the program, Meet entrance exam requirements, Must be able to read and write the English Language, COC - Must have a signed off 8610-2 Form from Flight Standards District Office/ FAA

Degree Maps

Degree Map Name
Aviation Maintenance Technology, AAS
Total Degree Map Credits
92
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	21	3

Requirement Select
- AMT187 - General I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- AMT188 - General II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- AMT189 - General III

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select
- AMT190 - General IV

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select
- Humanities Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	22	0

Requirement Select
- AMT233 - Airframe I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- AMT234 - Airframe II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select
- AMT235 - Airframe III

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select
- AMT236 - Airframe IV

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select
- ENG101 - Composition I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	10	0

Requirement Select
- AMT237 - Airframe V

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select
- AMT238 - Airframe VI

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	22	3

Requirement Select
- AMT239 - Airframe VII

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select
- AMT253 - Powerplant I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- AMT254 - Powerplant II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select
- AMT255 - Powerplant III

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select
- Communication Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	17	6

Requirement Select
- AMT256 - Powerplant IV

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	120
Clinical	-
Criticality	No

Requirement Select
- AMT257 - Powerplant V

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select
- Math Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Social Sciences Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

AAS-MNF_TECH - Manufacturing Technology, AAS

Overview

Department(s)
Manufacturing

Degree Designation
Associate of Applied Science

Catalog Full Description
This program provides graduates with a well-rounded education in basic manufacturing processes and progresses them through multiple manufacturing concepts to more advanced automation skills including industry specific skills of assembly and production for a variety of manufacturing sectors. All students will experience a core curriculum focused on the foundational skills in manufacturing processes including precision measuring, blueprint reading quality control, and basic design concepts. Different pathways allow for students to learn on state-of-the-art industrial trainers and systems to match industry skills in assembly, operations, fabrication, maintenance, and CNC operators. Onsite networks allow the building of virtual factories, buildings, and other smart components. Students will create integration scenarios, troubleshooting activities, root-cause analysis, and other real-world scenarios.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Manufacturing Technology, AAS - $13,934.00

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.

Campus Location
WSU Tech Main Campus - National Center for Aviation Training (NCAT) - 4004 N. Webb Rd., Wichita, KS 67226, FUTURE READY CENTER - 1403 North Waco, Wichita, KS 67203

Requirements

Simple Requisites

Program Requirements

Manufacturing Technology, AAS
Type
Completion Requirement

Manufacturing Technology Requirements

Complete ALL of the following Courses:

- MNF110 - CNC Basics - 2 Credits
- MNF113 - Blueprint Basics Manufacturing - 2 Credits
- MNF115 - Forklift Operations - 1 Credits
- MNF120 - Processes & Production I - 3 Credits
- MNF125 - Maintenance Training - 4 Credits
- MNF130 - Processes & Production II - 3 Credits
- MNF163 - Production Assembly - 3 Credits
- AVC104 - Quality Control Concepts - 1 Credits
- AVC110 - Safety/OSHA 10 - 1 Credits
- AVC135 - Hand Tools - 1 Credits
- AVC145 - Power Island - 1 Credits
- MCD106 - Precision Measuring - 2 Credits
- MCD137 - Introduction to 3D Printing - 2 Credits
- MMG131 - Metallurgy - 1 Credits
- PDV115 - Work Ethics - 2 Credits
- ENG101 - Composition I - 3 Credits

Manufacturing Technology Requirement

Earn at least 16 credits from the following:

- Manufacturing Technology Electives

General Education Requirement

Complete ANY of the following Course Sets:

- Communication Elective

General Education Requirement

Complete ANY of the following Course Sets:

- Humanities Elective

General Education Requirement

Complete ANY of the following Course Sets:

- Math Elective

General Education Requirement

Earn at least 3 credits from the following:

- Social Sciences Elective

Entry Requirements

- Be 16 years of age or older

Degree Maps

Degree Map Name
Manufacturing Technology, AAS
Total Degree Map Credits
60
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	11	0

Requirement Select

- MNF113 - Blueprint Basics For Manufacturing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select

- MNF115 - Forklift Operations

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select

- MNF120 - Manufacturing Processes & Production I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- AVC104 - Quality Control Concepts

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- AVC110 - Safety/OSHA 10

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- AVC135 - Hand Tools

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- AVC145 - Power Island

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- MMG131 - Metallurgy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	18	0

Requirement Select
- MNF110 - CNC Basics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- MNF125 - Maintenance Training

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select
- MNF130 - Manufacturing Processes & Production II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select

- MNF163 - Production Assembly

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- MCD106 - Precision Measuring

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select

- MCD137 - Introduction to 3D Printing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- PDV115 - Work Ethics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	6	3

Requirement Select

- ENG101 - Composition I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- Social Sciences Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	14	14

Requirement Select

- Manufacturing Technology Electives

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	8
Progress Credits	8
Contact Hours	8
Clinical	-
Criticality	No

Requirement Select

- Communication Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Math Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	11	11

Requirement Select
- Manufacturing Technology Electives

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	8
Progress Credits	8
Contact Hours	8
Clinical	-
Criticality	No

Requirement Select
- Humanities Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

AAS-MNT_HLTH - Mental Health Technician, AAS

Overview

Department(s)
Nursing

Degree Designation
Associate of Applied Science

Catalog Full Description
The Mental Health Technician program integrates core mental health courses with general education. Students engage in hands-on learning, developing technical proficiency in nursing skills, emergency procedures, and advanced techniques. The curriculum emphasizes mental health competence, covering the causes and treatment of mental illness, resilience, and effective communication. The program also focuses on pharmacology and drug administration skills and insights into behavioral science factors impacting mental health. Graduates emerge with a well-rounded skill set to provide compassionate care in mental and physical health settings and are prepared to take the Licensed Mental Health Technician exam.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Mental Health Technician, AAS $13,859.00

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.

Campus Location
WSU Tech South – 3821 E. Harry, Wichita, KS 67218

Requirements

Simple Requisites

Program Requirements

Mental Health Technician, AAS
Type
Completion Requirement

Mental Health Technician Requirements

Complete ALL of the following Courses:
- MNT120 - Understanding Mental Illness - 2 Credits
- MNT130 - Behavioral Science - 3 Credits
- MNT140 - Technical Health Skills I - 5 Credits
- MNT170 - Pharmacology & Drug Admin - 8 Credits
- MNT180 - Technical Health Skills II - 5 Credits
- MNT190 - Therapeutic Communication - 2 Credits
- MNT200 - Psychiatric Interventions - 8 Credits
- ALH110 - Principles of Nutrition - 3 Credits
- ENG101 - Composition I - 3 Credits
- PSY101 - General Psychology - 3 Credits
- PSY120 - Developmental Psychology - 3 Credits
- SOC101 - Principles of Sociology - 3 Credits

General Education Requirement

Complete ANY of the following Course Sets:
- Communication Elective

General Education Requirement

Earn at least 6 credits from the following:
- Humanities Elective

General Education Requirement

Complete ANY of the following Course Sets:
- Math Elective

Entry Requirements
Be 18 years of age or older to participate in clinicals, Documentation of high school graduation or satisfaction of high school equivalency certificate requirements, or students currently enrolled in high school or GED program and have attained junior status, Completion of application and related procedures

Degree Maps

Degree Map Name
Mental Health Technician, AAS
Total Degree Map Credits
60
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	19	3

Requirement Select
- MNT120 - Understanding Mental Illness

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- MNT130 - Behavioral Science

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- MNT140 - Technical Health Skills I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	135
Clinical	-
Criticality	No

Requirement Select
- PSY101 - General Psychology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- PSY120 - Developmental Psychology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- Math Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	23	0

Requirement Select
- MNT170 - Pharmacology & Drug Administration

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	8
Progress Credits	-
Contact Hours	165
Clinical	-
Criticality	No

Requirement Select
- MNT180 - Technical Health Skills II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	135
Clinical	-
Criticality	No

Requirement Select
- MNT190 - Therapeutic Communication

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- MNT200 - Psychiatric Interventions

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	8
Progress Credits	-
Contact Hours	210
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	18	9

Requirement Select
- ALH110 - Principles of Nutrition

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- ENG101 - Composition I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- SOC101 - Principles of Sociology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- Communication Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Humanities Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Humanities Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

AAS-MOB_EQPM - Mobile Equipment Technology, AAS

Overview

Department(s)
Applied Technologies

Degree Designation
Associate of Applied Science

Catalog Full Description
The Mobile Equipment Technology program prepares students to service, maintain, repair, and operate a variety of diesel-powered mobile equipment. Students develop a strong understanding of engine systems, hydraulics, electrical systems, powertrains, and other critical sub-systems. Through hands-on training, students learn to diagnose component failures, perform timely and accurate repairs, conduct preventive maintenance, and safely operate heavy equipment used across multiple industries. Students may pursue one of three tracks at the Associate of Applied Science (AAS) degree level: Mobile Equipment Technology (equipment maintenance and repair focus),Mobile Equipment Technology - Think Big (specialized Caterpillar Inc. partnership program), Heavy Equipment Operator (operation of bulldozers, excavators, loaders, and related heavy machinery). At the Technical Certificate (TC) level, students may choose between the Mobile Equipment Technology or Heavy Equipment Operator tracks. (The Think Big program is available only at the AAS level.) This flexible structure allows students to tailor their education to match their career goals, whether they aim to specialize in equipment maintenance and diagnostics or develop expertise in heavy equipment operation. Graduates are prepared for employment in industries such as construction, agriculture, transportation, energy, and heavy equipment services.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Mobile Equipment Technology, AAS - $14,056.00

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.

Campus Location
WSU Tech City Center – 301 S. Grove, Wichita, KS 67211

Requirements

Simple Requisites

Program Requirements

Mobile Equipment Technology, AAS
Type
Completion Requirement

Mobile Equipment Technology Requirements

Complete ALL of the following Courses:
- EQP121 - Diesel Engine Repair - 4 Credits
- EQP132 - Fuel & Exhaust Systems - 3 Credits
- EQP134 - Machine Specific Systems - 1 Credits
- EQP135 - Mobile Equipment Diagnostics - 3 Credits
- EQP180 - Fluid Power - 4 Credits
- EQP206 - Powertrain Systems - 4 Credits
- EQP210 - Dealership Fundamentals - 2 Credits
- EQP220 - Advanced Fluid Power - 2 Credits
- TAS105 - Orientation to Transportation - 1 Credits
- TAS124 - Electrical I - 3 Credits
- TAS125 - Electrical II - 3 Credits
- TAS128 - Heating & Air Conditioning - 4 Credits
- TAS131 - Engine Performance I - 3 Credits
- TAS133 - Brakes I - 3 Credits
- TAS136 - Suspension and Steering I - 3 Credits
- TAS160 - Transportation Industry Safety - 1 Credits
- TAS225 - Electrical III - 2 Credits
- ENG101 - Composition I - 3 Credits

General Education Requirement

Complete ANY of the following Course Sets:
- Communication Elective

General Education Requirement

Complete ANY of the following Course Sets:
- Humanities Elective

General Education Requirement

Complete ANY of the following Course Sets:
- Math Elective

General Education Requirement

Complete ANY of the following Course Sets:
- Social Sciences Elective

Mobile Equipment Technology, Think Big
Type
Completion Requirement

Mobile Equipment Technology - Think Big Requirements

Complete ALL of the following Courses:
- EQP121 - Diesel Engine Repair - 4 Credits
- EQP132 - Fuel & Exhaust Systems - 3 Credits
- EQP180 - Fluid Power - 4 Credits
- EQP210 - Dealership Fundamentals - 2 Credits
- EQP225 - Control Panels and Data Links - 5 Credits
- EQP230 - Automatic Transfer Switches - 5 Credits
- EQP235 - Voltage Regulation - 5 Credits
- EQP240 - Generators & EPG Calculations - 5 Credits

- TAS105 - Orientation to Transportation - 1 Credits
- TAS124 - Electrical I - 3 Credits
- TAS125 - Electrical II - 3 Credits
- TAS131 - Engine Performance I - 3 Credits
- TAS160 - Transportation Industry Safety - 1 Credits
- TAS225 - Electrical III - 2 Credits
- ENG101 - Composition I - 3 Credits

General Education Requirement

Complete ANY of the following Course Sets:

- Communication Elective

General Education Requirement

Complete ANY of the following Course Sets:

- Humanities Elective

General Education Requirement

Complete ANY of the following Course Sets:

- Math Elective

General Education Requirement

Complete ANY of the following Course Sets:

- Social Sciences Elective

Entry Requirements

- 16 years of age
- Complete all college admission documents
- Complete entrance exams for general education requirements

List additional Program Admission Requirements
Mobile Equipment Technology, Think Big

- All of the above program entry requirements
- Apply and be accepted to the Caterpillar :Think Big Program

Degree Maps

Degree Map Name
Mobile Equipment Technology- Think Big, AAS
Total Degree Map Credits
61
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	14	3

Requirement Select

- EQP121 - Diesel Engine Repair

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select

- EQP210 - Dealership Fundamentals

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select

- TAS105 - Orientation to the Transportation Industry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select

- TAS124 - Electrical I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- TAS160 - Transportation Industry Safety

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- Math Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select
- EQP132 - Fuel & Exhaust Systems

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- EQP180 - Fluid Power

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select
- EQP225 - Control Panels and Data Links

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	120
Clinical	-
Criticality	No

Requirement Select
- ENG101 - Composition I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	5	0

Requirement Select
- EQP230 - Automatic Transfer Switches

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	120
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	13	3

Requirement Select
- EQP235 - Voltage Regulation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	120
Clinical	-
Criticality	No

Requirement Select
- TAS125 - Electrical II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- TAS225 - Electrical III

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- Humanities Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	14	6

Requirement Select
- EQP240 - Generators & EPG Calculations

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	120
Clinical	-
Criticality	No

Requirement Select
- TAS131 - Engine Performance I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- Communication Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Social Sciences Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Degree Map Name
Mobile Equipment Technology, AAS
Total Degree Map Credits
61
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	14	3

Requirement Select
- EQP121 - Diesel Engine Repair

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select
- EQP210 - Dealership Fundamentals

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- TAS105 - Orientation to the Transportation Industry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- TAS124 - Electrical I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- TAS160 - Transportation Industry Safety

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- Math Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	14	0

Requirement Select
- EQP132 - Fuel & Exhaust Systems

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- EQP180 - Fluid Power

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select
- TAS128 - Heating & Air Conditioning

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- ENG101 - Composition I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	6	0

Requirement Select
- EQP206 - Powertrain Systems

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- EQP220 - Advanced Fluid Power

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	14	3

Requirement Select
- TAS125 - Electrical II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- TAS133 - Brakes I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- TAS136 - Suspension and Steering I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- TAS225 - Electrical III

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- Humanities Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	13	6

Requirement Select

- EQP134 - Machine Specific Systems

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select

- EQP135 - Mobile Equipment Diagnostics Test

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- TAS131 - Engine Performance I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- Communication Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select

- Social Sciences Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

AAS-NDT - Nondestructive Testing, AAS

Overview

Department(s)
Aviation

Degree Designation
Associate of Applied Science

Catalog Full Description
The associate degree program is a sequence of courses designed to produce a technician who understands NDTs role in the aerospace industry, has mastered the American Society for Nondestructive Testing coursework for Levels I and II certification and has the depth and breadth of knowledge which comes from general education courses. In this program students will complete Levels I and II ASNT competencies for six NDT methods including liquid penetrant, ultrasonic, eddy current, visual, radiography and magnetic particle inspection. Students will round off their educational experience by completing 20 credits of general education courses in five areas of study including humanities, mathematics, natural and social sciences, English and communications.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Nondestructive Testing, AAS - $14,987.00

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

Campus Location
WSU Tech Main Campus - National Center for Aviation Training (NCAT) - 4004 N. Webb Rd., Wichita, KS 67226

Requirements

Simple Requisites

Program Requirements

Nondestructive Testing, AAS
Type
Completion Requirement

Nondestructive Testing Course List

Complete ALL of the following Courses:

- NDT100 - Penetrant Inspection - 3 Credits
- NDT101 - Magnetic Particle Testing - 3 Credits
- NDT102 - Radiation Safety - 3 Credits
- NDT103 - Radiographic Testing Level II - 3 Credits
- NDT106 - Formulations and Calculations - 2 Credits
- NDT107 - Radiographic Testing Level I - 3 Credits
- NDT110 - Eddy Current Level I - 3 Credits
- NDT111 - Eddy Current Level II - 3 Credits
- NDT112 - Ultrasonic Test Method Lvl I - 3 Credits
- NDT113 - Ultrasonic Test Method Lvl II - 3 Credits
- NDT114 - Visual Inspection - 2 Credits
- NDT123 - Adv Ultrasonic Testing Methods - 5 Credits
- AVC102 - Precision Instruments - 1 Credits
- AVC110 - Safety/OSHA 10 - 1 Credits
- CFT101 - Introduction To Composites - 2 Credits
- ENG101 - Composition I - 3 Credits
- PHS110 - Physical Science - 5 Credits

General Education Requirement

Complete ANY of the following Course Sets:

- Communication Elective

General Education Requirement

Complete ANY of the following Course Sets:

- Humanities Elective

General Education Requirement

Complete ANY of the following Course Sets:

- Math Elective

General Education Requirement

Complete ANY of the following Course Sets:

- Social Sciences Elective

Entry Requirements

- Be 18 years of age or older
- Complete all admission documents

Degree Maps

Degree Map Name
Nondestructive Testing, AAS
Total Degree Map Credits
60
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	19	0

Requirement Select

- NDT100 - Penetrant Inspection

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- NDT101 - Magnetic Particle Testing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	40
Clinical	-
Criticality	No

Requirement Select

- NDT106 - Formulations and Calculations

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select

- NDT110 - Eddy Current Level I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	40
Clinical	-
Criticality	No

Requirement Select
- NDT111 - Eddy Current Level II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- NDT112 - Ultrasonic Testing Method Level I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	40
Clinical	-
Criticality	No

Requirement Select
- NDT114 - Visual Inspection

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	17	0

Requirement Select
- NDT102 - Radiation Safety

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- NDT103 - Radiographic Testing Level II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- NDT107 - Radiographic Testing Level I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	40
Clinical	-
Criticality	No

Requirement Select
- NDT113 - Ultrasonic Testing Method Level II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- NDT123 - Advanced Ultrasonic Testing Methods

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	12	12

Requirement Select
- Communication Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Humanities Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Math Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Social Sciences Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	12	0

Requirement Select
- AVC102 - Precision Instruments

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- AVC110 - Safety/OSHA 10

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- CFT101 - Introduction To Composites

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- ENG101 - Composition I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- PHS110 - Physical Science

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

AAS-PLMP_TCH - Plumbers & Pipefitters Apprenticeship, AAS

Overview

Department(s)
Apprenticeship & Appl Learning

Degree Designation
Associate of Applied Science

Catalog Full Description
The Plumber & Pipefitter Apprenticeship Associate of Applied Science (AAS) degree is designed for individuals who have completed a registered apprenticeship program through an approved Plumber or Pipefitter training facility. Students receive 45 credits for prior learning based on their journeyman card and complete an additional 15 credit hours of general education to earn the degree. This program combines advanced technical training with foundational college coursework to support career growth and leadership opportunities in the skilled trades.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Campus Location
WSU Tech City Center – 301 S. Grove, Wichita, KS 67211

Requirements

Simple Requisites

Program Requirements

Plumber & Pipefitter Apprenticeship, AAS
Type
Completion Requirement

Plumbers & Pipefitters Apprenticeship Requirements

Complete ALL of the following Courses:
- PPT225 - Plumbers & Pipefitters Apps - 45 Credits
- ENG101 - Composition I - 3 Credits

General Education Requirement

Earn at least 15 credits from the following:
- Communication Elective
- Humanities Elective
- Math Elective
- Social Sciences Elective
- Science Elective

Entry Requirements
- Complete all admissions documentation
- Provide Plumbers & Pipefitters journeyman card
- Plumbers & Pipefitters Transcript from approved training facility

AAS-PROF_PLT - Professional Pilot, AAS

Overview

Department(s)
Aviation

Degree Designation
Associate of Applied Science

Catalog Full Description
This program prepares students for careers in the aviation industry as Professional Pilots. The program provides students the opportunity to progress through five FAA certifications/ratings including Private Pilot, Instrument Rating, Commercial Pilot, Multi-Engine Rating and Certified Flight Instructor. Located at the National Center for Aviation Training the program focuses on solid aviation skill sets, using state of the art equipment and is grounded in safety and risk management.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Cost does not include online fees, books or tools. Financial Assistance may be available to those who quality. Total calculated based on the lowest cot 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	$16,373
Semester two Instrument Pilot	40	$12,446
Semester three Commercial Pilot	120	$31,201
Semester four Multiengine Pilot	20	$10,112
Semester four Certified Flight Instructor	25	$9,613
Tuition and Fees		**$17,325.00**
Flight Hours		**$79,745.00**
Program Total		**$97,070.00**

Campus Location
WSU Tech Main Campus - National Center for Aviation Training (NCAT) - 4004 N. Webb Rd., Wichita, KS 67226

Requirements

Simple Requisites

Program Requirements

Professional Pilot, AAS
Type
Completion Requirement

Professional Pilot Requirements

Complete ALL of the following Courses:

- PLT104 - Introduction to Aviation - 3 Credits
- PLT112 - Private Pilot Flight Lab - 3 Credits
- PLT116 - Aviation Weather - 3 Credits
- PLT120 - Instrument Regs and Procedures - 3 Credits
- PLT126 - Aviation Standardization - 2 Credits
- PLT128 - Instrumental Flight Lab - 3 Credits
- PLT130 - Aerodynamics and Aircraft Perf - 2 Credits
- PLT132 - Aviation Safety & Human Factor - 3 Credits
- PLT134 - Aircraft Systems for Pilots - 2 Credits
- PLT136 - Crew Resource Management - 2 Credits
- PLT144 - Intro to Commercial Flight - 3 Credits
- PLT146 - Air Traffic Control & Airspace - 2 Credits
- PLT152 - Commercial Flight Lab - 3 Credits
- PLT154 - Aviation Law and Regulations - 2 Credits
- PLT156 - Multiengine Aircraft Operation - 1 Credits
- PLT160 - Multiengine Flight Lab - 2 Credits
- PLT168 - Certified Flight Instruction - 4 Credits
- PLT176 - Certified Flight Instruct Lab - 2 Credits
- ENG101 - Composition I - 3 Credits

General Education Requirement

Complete ANY of the following Course Sets:

- Communication Elective

General Education Requirement

Complete ANY of the following Course Sets:

- Humanities Elective

General Education Requirement

Complete ANY of the following Course Sets:

- Math Elective

General Education Requirement

Complete ANY of the following Course Sets:

- Social Sciences Elective

Entry Requirements
Be 17 years of age or older

Completion of application and related procedures

Documentation of high school graduation or satisfaction of high school equivalency certificate requirements Satisfactory completion of a GED

Class 3 Medical Exam

Full financing must be in place prior to acceptance

Student Pilot Certificate Math and English placement scores that equate to intermediate algebra and composition I

Physical requirements - due to the safety requirements of flying in a Cessna 172 student cannot be taller than 6'3" or exceed 250 lbs.

Degree Maps

Degree Map Name
Professional Pilot, AAS (Private Pilot Transfer lab)
Total Degree Map Credits
60
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16	3

Requirement Select

- PLT114 - Private Pilot Rating Transfer Lab

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	180
Clinical	-
Criticality	No

Requirement Select

- PLT126 - Aviation Standardization and Career Paths

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select

- PLT132 - Aviation Safety and Human Factors

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- PLT146 - Air Traffic Control and Airspace

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select

- Math Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	16	0

Requirement Select

- PLT116 - Aviation Weather

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- PLT120 - Instrument Regulations and Procedures

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- PLT128 - Instrument Flight Lab

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select

- PLT136 - Crew Resource Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select

- PLT154 - Aviation Law and Regulations

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select

- ENG101 - Composition I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	16	6

Requirement Select
- PLT130 - Aerodynamics and Aircraft Performance

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- PLT134 - Aircraft Systems for Pilots

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- PLT144 - Introduction to Commercial Flight

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- PLT152 - Commercial Flight Lab

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select
- Communication Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Social Sciences Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	12	3

Requirement Select
- PLT156 - Multiengine Aircraft Operation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- PLT160 - Multiengine Flight Lab

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- PLT168 - Certified Flight Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- PLT176 - Certified Flight Instruction Lab

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- Humanities Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Total General Education Credits
0
Total Major Credits
0
Total Minor Credits
0
Total Elective Credits
0

Degree Map Name
Professional Pilot, AAS (Private Pilot and Instrument Rating Transfer Lab)
Total Degree Map Credits
60
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	22	3

Requirement Select
- PLT126 - Aviation Standardization and Career Paths

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- PLT129 - Part 61 Private Pilot and Instrument Rating Transfer Lab

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	12
Progress Credits	-
Contact Hours	360
Clinical	-
Criticality	No

Requirement Select
- PLT132 - Aviation Safety and Human Factors

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- PLT146 - Air Traffic Control and Airspace

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- Math Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	10	0

Requirement Select
- PLT116 - Aviation Weather

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- PLT136 - Crew Resource Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- PLT154 - Aviation Law and Regulations

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- ENG101 - Composition I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	16	6

Requirement Select
- PLT130 - Aerodynamics and Aircraft Performance

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- PLT134 - Aircraft Systems for Pilots

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- PLT144 - Introduction to Commercial Flight

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- PLT152 - Commercial Flight Lab

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select
- Communication Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Social Sciences Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	12	3

Requirement Select
- PLT156 - Multiengine Aircraft Operation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- PLT160 - Multiengine Flight Lab

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- PLT168 - Certified Flight Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- PLT176 - Certified Flight Instruction Lab

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- Humanities Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Degree Map Name
Professional Pilot, AAS
Total Degree Map Credits

60

Degree Map Effective Catalog Year

2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16	3

Requirement Select

- PLT104 - Introduction to Aviation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- PLT112 - Private Pilot Flight Lab

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select

- PLT126 - Aviation Standardization and Career Paths

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select

- PLT132 - Aviation Safety and Human Factors

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- PLT146 - Air Traffic Control and Airspace

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select

- Math Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	16	0

Requirement Select

- PLT116 - Aviation Weather

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- PLT120 - Instrument Regulations and Procedures

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- PLT128 - Instrument Flight Lab

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select
- PLT130 - Aerodynamics and Aircraft Performance

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- PLT136 - Crew Resource Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- PLT134 - Aircraft Systems for Pilots

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- PLT154 - Aviation Law and Regulations

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- PLT144 - Introduction to Commercial Flight

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- ENG101 - Composition I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- PLT152 - Commercial Flight Lab

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	16	6

Requirement Select
- Communication Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Social Sciences Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	12	3

Requirement Select
- PLT156 - Multiengine Aircraft Operation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- PLT160 - Multiengine Flight Lab

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- PLT168 - Certified Flight Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- PLT176 - Certified Flight Instruction Lab

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- Humanities Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

AAS-QUAL_INS - Quality Assurance Inspection, AAS

Overview

Department(s)
Manufacturing

Degree Designation
Associate of Applied Science

Catalog Full Description
The Quality Assurance Inspection program offers students the foundational skills to excel in various manufacturing environments. This program is designed for individuals aiming to ensure that products meet industry standards and customer expectations, focusing on quality control and inspection techniques. Through courses such as Quality Documentation, students will learn the importance of meticulous record-keeping in maintaining quality assurance standards. The

Material Testing and Analysis course introduces students to various testing methods to assess material properties and detect potential defects. Additionally, the Root Cause Analysis course empowers students to investigate failures and implement effective solutions to improve manufacturing processes. Students will delve into essential topics such as Traceability, ensuring every component can be traced throughout its lifecycle, and Precision Measuring, which is critical for verifying product specifications. Understanding Human Factors helps students recognize the influence of human behavior on quality outcomes, while Metrology teaches them the principles of measurement necessary for quality control. This program incorporates two applied learning opportunities, providing students with hands-on experience in real manufacturing settings. By the end of the program, graduates will possess the skills to carry out thorough inspections, conduct tests, and ensure products are produced to the highest quality standards, ready to support diverse manufacturing sectors.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Quality Assurance Inspection, AAS - $15,350.00

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.

Campus Location
WSU Tech Main Campus - National Center for Aviation Training (NCAT) - 4004 N. Webb Rd., Wichita, KS 67226

Requirements

Simple Requisites

Program Requirements

Quality Assurance Inspection, AAS
Type
Completion Requirement

Quality Assurance Inspection Requirements

Complete ALL of the following Courses:

- QAI135 - Quality Assurance Orientation - 1 Credits
- QAI145 - Quality Management - 3 Credits
- QAI155 - Quality Doc and Traceability - 3 Credits
- QAI165 - Materials Testing and Analysis - 3 Credits
- QAI175 - QAI Internship I - 3 Credits
- QAI185 - Statistical Process Control - 1 Credits
- QAI195 - Root Cause Analysis - 1 Credits
- QAI201 - Geo Dimensioning & Tolerance - 3 Credits
- QAI215 - Human Factors in Manufacturing - 3 Credits
- QAI225 - QAI Internship II - 4 Credits
- AVC110 - Safety/OSHA 10 - 1 Credits
- AVC112 - Blueprint Reading - 2 Credits
- MCD106 - Precision Measuring - 2 Credits
- MCD210 - Advanced Measuring - 3 Credits
- ENG101 - Composition I - 3 Credits
- CED115 - Computer Applications - 3 Credits
- PDV115 - Work Ethics - 2 Credits
- CAT101 - CATIA Part Design & Sketcher - 4 Credits
- TFF120 - Metrology - 4 Credits
  OR MMG140 - Metrology - 4 Credits

General Education Requirement

Complete ANY of the following Course Sets:

- Communication Elective

General Education Requirement

Complete ANY of the following Course Sets:

- Humanities Elective

General Education Requirement

Complete ANY of the following Course Sets:

- Math Elective

General Education Requirement

Complete ANY of the following Course Sets:

- Social Sciences Elective

Entry Requirements
Be 16 years of age or older, Completion of application and related procedures

Degree Maps

Degree Map Name
Quality Assurance Inspection, AAS
Total Degree Map Credits
61
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	14	3

Requirement Select

- QAI135 - Quality Assurance Orientation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select

- AVC110 - Safety/OSHA 10

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- AVC112 - Blueprint Reading

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- CED115 - Computer Applications

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- MCD106 - Precision Measuring

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- PDV115 - Work Ethics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- Math Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	16	4

Requirement Select
- QAI145 - Quality Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- QAI155 - Quality Documentation and Traceability

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- Quality Assurance Inspection Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	4
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- MCD210 - Advanced Measuring

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- ENG101 - Composition I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	16	6

Requirement Select
- QAI165 - Materials Testing and Analysis

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- QAI175 - Quality Assurance Inspection Internship I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	135
Clinical	-
Criticality	No

Requirement Select
- CAT101 - CATIA Part Design & Sketcher

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select
- Communication Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Social Sciences Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	15	3

Requirement Select
- QAI185 - Statistical Process Control

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- QAI195 - Root Cause Analysis

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- QAI201 - Geometric Dimensioning & Tolerance

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- QAI215 - Human Factors in Manufacturing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- QAI225 - Quality Assurance Inspection Internship II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	180
Clinical	-
Criticality	No

Requirement Select
- Humanities Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

AAS-REG_NRSE - Associate Degree Nurse (A.D.N.), AAS

Overview

Department(s)
Nursing

Degree Designation
Associate of Applied Science

Catalog Full Description
The WSU Tech Associate Degree Nurse (A.D.N.) program is designed to provide students with quality academic and clinical instruction. The program educates students in response to society's continually advancing healthcare needs while developing lifelong learners. Students also learn about emergency care procedures and the legal requirements for medical personnel. The Registered Nurse program provides students with the knowledge and skills they need to sit for the NCLEX licensure exam. After graduation and passing this licensure exam, students can pursue a career as an entry-level registered nurse in a variety of clinical and hospital settings. The Associate Degree Nurse(A.D.N.) program can typically be completed over a 2 year period. The curriculum includes registered nursing courses, as well as liberal arts courses. The nursing component of the program includes clinical experiences with rotations in both inpatient and outpatient settings where students learn how to perform patient assessments and basic healthcare duties. In addition to general education courses that include psychology and sociology, core Associate Degree Nurse (A.D.N) courses include: Anatomy & Physiology, Biology, Microbiology, Nutrition, Fundamentals of Nursing, Advanced Medical/Surgical Nursing, Nursing Pharmacology. The WSU Tech Associate Degree Nurse (A.D.N.) program is aligned with the National Center for Education Statistics CIP code 51.3801: Registered Nursing/Registered Nurse prepares individuals in the knowledge, techniques and procedures for promoting health, providing care for sick, disabled, infirmed, or other individuals or groups. Includes instruction in the administration of medication and treatments, assisting a physician during treatments and examinations, Referring patients to physicians and other health care specialists, and planning education for health maintenance.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Associate Degree Nurse (A.D.N.), AAS - $19,550.00

Associate Degree Nurse(A.D.N.) -Bridge Program, AAS - $13,993.00

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.

Campus Location
WSU Tech South – 3821 E. Harry, Wichita, KS 67218

Requirements

Simple Requisites

Program Requirements

Associate Degree Nurse (A.D.N.), AAS
Type
Completion Requirement

Associate Degree Nurse (ADN) Requirements

Complete ALL of the following Courses:

- ADN120 - Intro to Nursing Concepts - 1 Credits
- ADN130 - Foundational Concepts Nursing - 6 Credits
- ADN140 - Pharmacological Concepts I - 2 Credits
- ADN150 - Prof Nursing Concepts I - 4 Credits
- ADN160 - Client Care Concepts I - 6 Credits
- ADN170 - Pharmacological Concepts II - 2 Credits
- ADN180 - Client Care Concepts II - 6 Credits
- ADN190 - Prof Nursing Concepts II - 4 Credits
- ADN200 - Client Care Concepts III - 6 Credits
- ADN210 - Transition to Practice - 4 Credits
- ALH175 - Intro to Pathophysiology - 4 Credits
- BIO110 - Principles of Biology - 5 Credits
  OR CHM110 - General Chemistry - 5 Credits
- BIO150 - Human Anatomy & Physiology - 5 Credits
- ENG101 - Composition I - 3 Credits
- PSY101 - General Psychology - 3 Credits
- PSY120 - Developmental Psychology - 3 Credits

Associate Degree Nurse (ADN) Requirement

Earn at least 6 credits from the following:

- ALH110 - Principles of Nutrition - 3 Credits
- ALH101 - Medical Terminology - 3 Credits
- SOC101 - Principles of Sociology - 3 Credits

Associate Degree Nurse(A.D.N.) - Bridge Program
Type
Completion Requirement

Associate Degree Nurse credits from Liscensed Practical Nurse Program

Complete ALL of the following Course Sets:

- Associate Degree Nurse Credits from Liscensed Practical Nurse Program

Associate Degree Nurse(ADN) - Bridge From LPN

Complete ALL of the following Courses:

- ADN110 - Transitioning from LPN to RN - 4 Credits
- ADN120 - Intro to Nursing Concepts - 1 Credits
- ADN180 - Client Care Concepts II - 6 Credits
- ADN190 - Prof Nursing Concepts II - 4 Credits
- ADN200 - Client Care Concepts III - 6 Credits
- ADN210 - Transition to Practice - 4 Credits
- ALH175 - Intro to Pathophysiology - 4 Credits
- BIO110 - Principles of Biology - 5 Credits
  OR CHM110 - General Chemistry - 5 Credits
- BIO150 - Human Anatomy & Physiology - 5 Credits
- ENG101 - Composition I - 3 Credits
- PSY101 - General Psychology - 3 Credits
- PSY120 - Developmental Psychology - 3 Credits

Associate Degree Nurse (A.D.N.) - Bridge Program Requirement

Earn at least 6 credits from the following:

- ALH101 - Medical Terminology - 3 Credits
- ALH110 - Principles of Nutrition - 3 Credits
- SOC101 - Principles of Sociology - 3 Credits

Entry Requirements
Complete a Nursing Program Application, Be a current Kansas Certified Nurse Aide (CNA), Copy of current CNA certificate from KDADS to WSUTech, Current CPR certification with the American Heart Association for Health Care Providers for infant, child and Adult AED, Successfully complete the NLN NEX : Composite Score NLN NEX must be a minimum of 138 and Verbal NLN NEX score must be a minimum of 63, Attend an in-person information session prior to registration

List additional Program Admission Requirements
Admission Requirements Associate Degree Nurse (A.D.N.) Program

- Anatomy and Physiology (A&P) - Minimum score of "B" acceptable for no more than 5 years after completion date
- General Psychology - Minimum score of "B" acceptable
- Pathophysiology - Minimum score of "B" acceptable for no more than 5 years after completion date
- ENG 101 English Composition - Minimum score of "B" acceptable
- BIO 110 Principles of Biology or CHM 110 General Chemistry - Minimum score of "B" acceptable
- Students who are currently enrolled in prerequisite courses may bring a current, unofficial transcript or equivalent to the information session.
- All prerequisite courses must be completed by May 31st for August entry or October 31 for January entry. Midterm grades are not accepted for admission decisions.

Upon Admission to the Program

- Pay for and pass a criminal background check and drug-screen test at an agency designated by WSU Tech
- Complete required health examinations and immunizations at their own expense by designated date

Admission Requirements for the Associate Degree Nurse (A.D.N.) - Bridge Program

- Anatomy and Physiology (A&P) - Minimum score of "B" acceptable for no more than 5 years after completion date. However, the 5 -year limit is waived if the applicant is a currently practicing LPN
- General Psychology - Minimum score of "B" acceptable
- Pathophysiology - Minimum score of "B" acceptable for no more than 5 years after completion date
- ENG 101 English Composition - Minimum score of "B" acceptable
- BIO 110 Principles of Biology or CHM 110 General Chemistry - Minimum score of "B" acceptable
- ADN 110 Transitioning from LPN to RN

- Students who are currently enrolled in prerequisite courses may bring a current, unofficial transcript or equivalent to the information session.
- All prerequisite courses must be completed by April 15 for August entry or September 15 for January entry. Midterm grades are not accepted for admission decisions.

Upon Admission to the Program

- Pay for and pass a criminal background check and drug-screen test at an agency designated by WSU Tech
- Complete required health examinations and immunizations at their own expense by designated date

Degree Maps

Degree Map Name
Associate Degree Nurse (A.D.N.) - Bridge Program
Total Degree Map Credits
70
Degree Map Effective Catalog Year
2026 -
Degree Map Narrative
The Bridge program requires 16 credits be transferred from an accredited LPN program

The following courses must be completed prior to acceptance to the Associate Degree Nurse (A.D.N) Program: ALH 175, PSY 101, ENG 101, BIO 150, and BIO 110 or CHM 110

Year	Semester	Actual Credits	Progress Credits
-	-	36	16

Requirement Select
- ALH175 - Introduction to Pathophysiology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- BIO110 - Principles of Biology
  OR
- CHM110 - General Chemistry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select
- BIO150 - Human Anatomy & Physiology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select
- ENG101 - Composition I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- PSY101 - General Psychology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- Associate Degree Nurse Credits from Liscensed Practical Nurse Program

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	16
Progress Credits	16
Contact Hours	16
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	7	0

Requirement Select

- ADN110 - Concepts of Professional Nursing: Transitioning from LPN to RN

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select

- ALH101 - Medical Terminology
  OR
- ALH110 - Principles of Nutrition
  OR
- SOC101 - Principles of Sociology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	14	0

Requirement Select

- ADN120 - Introduction to Nursing Concepts

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select

- ADN180 - Client Care Concepts II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	150
Clinical	-
Criticality	No

Requirement Select

- ADN190 - Professional Nursing Concepts II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- PSY120 - Developmental Psychology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	13	0

Requirement Select

- ADN200 - Client Care Concepts III

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	150
Clinical	-
Criticality	No

Requirement Select

- ADN210 - Transition to Practice

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	120
Clinical	-
Criticality	No

Requirement Select

- ALH101 - Medical Terminology
  OR
- ALH110 - Principles of Nutrition
  OR
- SOC101 - Principles of Sociology

Course Requirement Group

Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Degree Map Name
Associate Degree Nurse (A.D.N.)
Total Degree Map Credits
70
Degree Map Effective Catalog Year
2026 -
Degree Map Narrative
The following courses must be completed prior to acceptance to the Associate Degree Nurse (A.D.N.) Program: ALH 175, PSY 101, ENG 101, BIO 150, and BIO 110 or CHM 110

Year	Semester	Actual Credits	Progress Credits
-	-	20	0

Requirement Select

- ALH175 - Introduction to Pathophysiology

Course Requirement Group

Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- BIO110 - Principles of Biology
  OR
- CHM110 - General Chemistry

Course Requirement Group

Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select

- BIO150 - Human Anatomy & Physiology

Course Requirement Group

Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select

- ENG101 - Composition I

Course Requirement Group

Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- PSY101 - General Psychology

Course Requirement Group

Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	12	0

Requirement Select
- ADN120 - Introduction to Nursing Concepts

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- ADN130 - Foundational Concepts in Nursing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	150
Clinical	-
Criticality	No

Requirement Select
- ADN140 - Pharmacological Concepts in Nursing I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- PSY120 - Developmental Psychology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	12	0

Requirement Select
- ADN150 - Professional Nursing Concepts I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- ADN160 - Client Care Concepts I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	150
Clinical	-
Criticality	No

Requirement Select
- ADN170 - Pharmacological Concepts in Nursing II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	13	0

Requirement Select
- ADN180 - Client Care Concepts II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	150
Clinical	-
Criticality	No

Requirement Select

- ADN190 - Professional Nursing Concepts II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- ALH101 - Medical Terminology
  OR
- ALH110 - Principles of Nutrition
  OR
- SOC101 - Principles of Sociology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	13	0

Requirement Select

- ADN200 - Client Care Concepts III

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	150
Clinical	-
Criticality	No

Requirement Select

- ADN210 - Transition to Practice

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	120
Clinical	-
Criticality	No

Requirement Select

- ALH101 - Medical Terminology
  OR
- ALH110 - Principles of Nutrition
  OR
- SOC101 - Principles of Sociology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

AAS-ROBOTICS - Robotics, AAS

Overview

Department(s)
Manufacturing

Degree Designation
Associate of Applied Science

Catalog Full Description
The WSU Tech Robotics program provides graduates with industry aligned courses designed to prepare them for entry into the highly technical field of Industrial and Collaborative Robotics. The program is a joint effort between WSU Tech and Wichita State Universitys National Institute for Aviation Research (NIAR). All students will experience a core curriculum focused on the foundational skills of robotics including usage, programming, design for application and implementation of robotic equipment and automated equipment to support manufacturing automation in areas such as welding, advanced coatings, and material handling. Working with industry recognized visual programming environments and a state-of-the-art robotics laboratory, students will apply cutting edge robotics research and electronic and mechanical systems to support the Industrial Internet of Things (IIoT). Students will gain the skills that support the design, build, implementation and data collection of IIoT using electronic sensors, small computer hardware and applications to collect, translate and deliver data to analytical business systems. Students will learn to program Programable Logic Controllers (PLC's), communicate between PLC's and robots, set up HMI's (human machine interface) to control and monitor the process, and even explore new advancements in Smart Factory environments such as machine learning and AI.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Robotics, AAS - $17,017.00

Campus Location
WSU Tech Main Campus - National Center for Aviation Training (NCAT) - 4004 N. Webb Rd., Wichita, KS 67226

Requirements

Simple Requisites

Program Requirements

Robotics, AAS
Type
Completion Requirement

Robotics Requirements

Complete ALL of the following Courses:

- ROB100 - Introduction to Robotics - 3 Credits
- ROB103 - Applied Robotics Lab I - 4 Credits
- ROB104 - Robotics Simulation - 2 Credits
- ROB106 - Robotics Controller Maint - 1 Credits
- ROB115 - Intro to Programming Robots - 4 Credits
- ROB118 - Basic Circuits - 3 Credits
- ROB120 - IoT: Internet of Things - 3 Credits
- ROB124 - Robotic Navigation - 2 Credits
- ROB128 - Basic PLC - 3 Credits
- ROB130 - IoT: Connected Things - 3 Credits
- ROB134 - Robotic Perception & Manipulat - 4 Credits
- ROB138 - Advanced PLC - 3 Credits
- ROB140 - IoT: Big Data Analytics - 3 Credits
- ROB145 - Applied Robotics Lab II - 2 Credits
- ROB170 - Robotics Internship - 3 Credits
  OR ROB172 - Robotics Capstone - 3 Credits
- ENG101 - Composition I - 3 Credits
- MTH112 - College Algebra - 3 Credits

Robotics Requirements

Earn at least 6 credits from the following:

- ROB144 - Machine Learning for Robotics - 3 Credits
- ROB148 - PLC System Design & Simulation - 3 Credits
- ROB150 - IoT Fundamentals: Security - 3 Credits
- ROB155 - Advanced Industrial Workcell - 3 Credits

General Education Requirement

Complete ANY of the following Course Sets:

- Communication Elective

General Education Requirement

Complete ANY of the following Course Sets:

- Humanities Elective

General Education Requirement

Complete ANY of the following Course Sets:

- Social Sciences Elective

Entry Requirements

- Be 16 years of age or older
  Complete all admission documents

2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	3

Requirement Select

- ROB100 - Introduction to Robotics
- **AND** ROB118 - Basic Circuits
- **AND** ROB128 - Basic PLC
- **AND** MTH112 - College Algebra

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	12
Progress Credits	-
Contact Hours	270
Clinical	-
Criticality	No

Requirement Select

- Communication Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	12	3

Requirement Select

- ROB115 - Introduction to Programming Robots in ROS
- **AND** ROB124 - Robotic Navigation
- **AND** ROB138 - Advanced PLC

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	210
Clinical	-
Criticality	No

Degree Maps

Degree Map Name
Robotics, AAS
Total Degree Map Credits
64
Degree Map Effective Catalog Year

Requirement Select
- Humanities Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	6	0

Requirement Select
- ROB120 - IoT Fundamentals: Introduction to the Internet of Things
- **AND** ROB130 - IoT Fundamentals: Connected Things

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	135
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	15	0

Requirement Select
- ROB103 - Applied Robotics Lab I
- **AND** ROB104 - Robotics Simulation
- **AND** ROB106 - Robotics Controller Maintenance
- **AND** ROB140 - IoT Fundamentals: Big Data Analytics
- **AND** ROB145 - Applied Robotics Lab II
- **AND** ENG101 - Composition I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	15
Progress Credits	-
Contact Hours	345
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	16	9

Requirement Select
- ROB134 - Robotic Perception and Manipulation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select
- Robotics Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	6
Contact Hours	6
Clinical	-
Criticality	No

Requirement Select
- ROB170 - Robotics Internship
  OR
- ROB172 - Robotics Capstone

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	135
Clinical	-
Criticality	No

Requirement Select
- Social Sciences Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

AAS-SMTL_APP - Sheetmetal Technology Apprenticeship

Overview

Department(s)
Apprenticeship & Appl Learning

Degree Designation
Associate of Applied Science

Program Level
Undergraduate

Effective Start Term
Fall 2025

Campus Location
WSU Tech Main Campus - National Center for Aviation Training (NCAT) - 4004 N. Webb Rd., Wichita, KS 67226

Requirements

No Requirements

Entry Requirements
Complete all college admissions documents

Journeyman Card

AAS-SURG_TEC - Surgical Technology, AAS

Overview

Department(s)
Health Sciences

Degree Designation
Associate of Applied Science

Catalog Full Description
The Surgical Technology program prepares students to function in the operating room environment by combining classroom and simulated laboratory instruction with actual surgical clinical experiences. Successful completion of the program allows graduates to take the national certification examination to become a certified surgical technologist (CST). Students may request consideration for advanced placement by submitting an official transcript of coursework. This program does not offer credit for experiential learning. The Associate of Applied Science degree, is typically a 2-year program that includes all prerequisite, general education and program course work. As a condition of participation in SGT119 Clinical I and SGT129 Clinical II, students do not receive any compensation from WSU Tech or the clinical affiliate. Students assist physicians during surgical procedures, but at no time are they substituted for a health care facility staff members. The WSU Tech Surgical Technology program is aligned with the National Center for Education Statistics CIP code 51.0909: Surgical Technology/ Technologist prepares individuals, under the supervision of physicians and surgical nurses, to maintain, monitor, and enforce the sterile field and adherence to aseptic technique by preoperative, surgical team, and postoperative personnel. Includes instruction in instrument and equipment sterilization and handling, surgical supplies management, wound exposure and closure, surgical computer and robot operation and monitoring, maintenance of hemostasis, and patient and team scrubbing.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Surgical Technology, AAS - $14,803.00

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.

Campus Location
WSU Tech South – 3821 E. Harry, Wichita, KS 67218

Requirements

Simple Requisites

Program Requirements

Surgical Technology, AAS
Type
Completion Requirement

Surgical Technology Requirements

Complete ALL of the following Courses:

- SGT101 - Intro to Surgical Technology - 4 Credits
- SGT107 - Pharmacology for Surgical Tech - 3 Credits
- SGT115 - Surgical Procedures I - 5 Credits
- SGT119 - Surg Tech-Clinic Experience I - 6 Credits
- SGT120 - Prin & Prac in Surg Tech - 5 Credits
- SGT125 - Surgical Procedures II - 5 Credits
- SGT129 - Surg Tech Clinic Experience II - 7 Credits
- SGT140 - Prin & Pract Surg Tech Lab - 3 Credits
- SGT145 - ST Certification Review - 1 Credits
- ALH101 - Medical Terminology - 3 Credits
- BIO150 - Human Anatomy & Physiology - 5 Credits
- BIO160 - Microbiology - 5 Credits
- CPR001 - CPR For Healthcare Providers - 1 Credits
- ENG101 - Composition I - 3 Credits
- PSY101 - General Psychology - 3 Credits
  OR SOC101 - Principles of Sociology - 3 Credits

General Education Requirement

Earn at least 3 credits from the following:

- Communication Elective

General Education Requirement

Earn at least 3 credits from the following:

- Math Elective

Entry Requirements
Be 18 years of age or older

1. Complete and submit WSU Tech application
2. Request official transcripts (high school, GED and any college credits) be mailed directly to the Registrar
3. Complete the Free Application for Federal Student Aid (FAFSA)
4. Successfully complete placement exams for Reading, Writing and Math (photo ID and payment are required to take the assessments)

List additional Program Admission Requirements
Program Admission Requirements

- All the following courses must be completed prior to admission to the program
  - BIO 150 Anatomy and Physiology - Minimum Score of "B" within 5 years of completion date

- BIO 160 Microbiology - Minimum Score of "B" within 5 years of completion date
- ALH 101 Medical Terminology - Minimum Score of "B" within 5 years of completion date
- CPR 001 CPR
- ENG 101 English Composition
- Math Elective
- PSY 101 General Psychology or SOC 101 Principles of Sociology
- Communications Elective

Degree Maps

Degree Map Name
Surgical Technology, AAS
Total Degree Map Credits
65
Degree Map Effective Catalog Year
2026 -
Degree Map Narrative
The following courses must be completed prior to acceptance to the Surgical Technology Program: ALH101, CPR 001, BIO 150, BIO 160, ENG 101, PSY 101 OR SOC 101, Communication Elective, and Math Elective.

Year	Semester	Actual Credits	Progress Credits
-	-	26	6

Requirement Select
- ALH101 - Medical Terminology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- CPR001 - CPR For Healthcare Providers

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- BIO160 - Microbiology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select
- BIO150 - Human Anatomy & Physiology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select
- ENG101 - Composition I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- PSY101 - General Psychology
  OR
- SOC101 - Principles of Sociology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- Communication Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Math Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	22	0

Requirement Select
- SGT101 - Introduction to Surgical Technology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- SGT115 - Surgical Procedures I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select
- SGT120 - Principles and Practices in Surgical Technology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- SGT125 - Surgical Procedures II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select
- SGT140 - Principles and Practices in Surgical Technology Lab

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	17	0

Requirement Select
- SGT107 - Pharmacology for Surgical Technology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- SGT119 - Surgical Technology - Clinical Experience I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	270
Clinical	-
Criticality	No

Requirement Select
- SGT129 - Surgical Technology - Clinical Experience II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	315
Clinical	-
Criticality	No

Requirement Select
- SGT145 - ST Certification Review

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

AAS-TOOL_FIX - Tooling and Fixture Fabrication, AAS

Overview

Department(s)
Aviation

Degree Designation
Associate of Applied Science

Catalog Full Description
The Tooling and Fixture Fabrication Program offers a multidisciplinary degree providing students with the knowledge and practical skills to become a tool and jig builder in multiple manufacturing environments. This program follows an apprenticeship model which blends theory-based classroom/lab instruction with on the job experience. Each week the students will have the opportunity to apply what they learn in the state-of-the-art labs and classrooms at the National Center for Aviation Training to manufacture aircraft at local aerospace organizations. The technical courses will include mechanical design, aviation/aerospace manufacturing, welding, machining, and electronics. General Education courses plus workplace skills training will provide the depth and breadth of knowledge students need to succeed in a global economy.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Tooling and Fixture Fabrication, AAS - $16,161.00

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.

Campus Location
WSU Tech Main Campus - National Center for Aviation Training (NCAT) - 4004 N. Webb Rd., Wichita, KS 67226

Requirements

Simple Requisites

Program Requirements

Tooling and Fixture Fabrication, AAS
Type
Completion Requirement

Tooling and Fixture Fabrication Requirements

Complete ALL of the following Courses:
- TFF108 - Welding Safety & Orientation - 1 Credits
- TFF110 - Tap and Die - 1 Credits
- TFF112 - Print Reading - 3 Credits
- TFF114 - Introduction to CAD I - 3 Credits
- TFF115 - Hand and Power Tools - 1 Credits
- TFF117 - Precision Measuring - 2 Credits
- TFF118 - Welding Applications - 4 Credits
- TFF120 - Metrology - 4 Credits
- TFF125 - Tooling Capstone - 4 Credits
- TFF130 - Machining I - 3 Credits
- TFF135 - Direct & Alternating Current - 4 Credits
- TFF140 - Machining II - 3 Credits
- TFF150 - Fixture Construction - 5 Credits
  OR TFF155 - Tool and Fixture Fab Capstone - 5 Credits
- AER106 - Aerospace Mfg Tooling Orientat - 1 Credits
- AER150 - Assembly Overview I - 3 Credits
- AVC103 - Geometric Dimension & Toleran - 1 Credits
- AVC104 - Quality Control Concepts - 1 Credits
- AVC107 - Fundamentals for Aerospace Mfg - 1 Credits
- AVC110 - Safety/OSHA 10 - 1 Credits
- AVC150 - Human Factors - 1 Credits
- AVC170 - Conflict Resolution - 1 Credits
- CAT101 - CATIA Part Design & Sketcher - 4 Credits
- ENG101 - Composition I - 3 Credits

General Education Requirement

Complete ANY of the following Course Sets:
- Communication Elective

General Education Requirement

Complete ANY of the following Course Sets:

- Humanities Elective

General Education Requirement

Complete ANY of the following Course Sets:

- Math Elective

General Education Requirement

Complete ANY of the following Course Sets:

- Social Sciences Elective

Entry Requirements

- Be 16 years of age or older
- Complete all admission documents

Degree Maps

Degree Map Name
Tooling and Fixture Fabrication, AAS
Total Degree Map Credits
67
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	13	0

Requirement Select

- TFF110 - Tap and Die

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select

- TFF112 - Print Reading

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- TFF115 - Hand and Power Tools for Aerospace Tooling

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select

- TFF117 - Precision Measuring

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select

- AER106 - Aerospace Manufacturing Tooling Orientation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select

- AVC104 - Quality Control Concepts

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- AVC107 - Fundamentals for Aerospace Manufacturing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- AVC110 - Safety/OSHA 10

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- AVC150 - Human Factors

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- AVC170 - Conflict Resolution

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	12	3

Requirement Select
- TFF130 - Machining I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- TFF140 - Machining II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- ENG101 - Composition I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- Humanities Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	8	3

Requirement Select
- TFF108 - Welding Safety & Orientation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- TFF118 - Welding Applications

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select
- Math Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	14	6

Requirement Select
- TFF114 - Introduction to CAD I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- AVC103 - Geometric Dimensioning & Tolerancing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- CAT101 - CATIA Part Design & Sketcher

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select
- Communication Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Social Sciences Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	20	0

Requirement Select

- TFF120 - Metrology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- TFF125 - Tooling Capstone

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	120
Clinical	-
Criticality	No

Requirement Select

- TFF135 - Direct & Alternating Current

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select

- TFF150 - Fixture Construction

  OR
- TFF155 - Tooling and Fixture Fabrication Capstone

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	225
Clinical	-
Criticality	No

Requirement Select

- AER150 - Assembly Overview I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

AAS-UNMA_NED - Unmanned Aircraft Systems, AAS

Overview

Department(s)
Aviation

Degree Designation
Associate of Applied Science

Catalog Full Description
nmanned Aircraft Systems (Drones) are revolutionizing data collection operations in multi sectors of the US economy including commercial industries, scientific research and local/state and Federal government entities. In this program students will learn the skills and knowledge to design, program and operate an effective UAS mission. Students will obtain a Part 107 license and rating while developing a safety - oriented mindset through risk management and situational awareness. Topics include GIS, Multirotor, UAS Ground School, Beyond Line of Site (BLoS) drone preparation, and FixedWing Flight.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Unmanned Aircraft Systems, AAS - $16,742.00

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

Campus Location
WSU Tech Main Campus - National Center for Aviation Training (NCAT) - 4004 N. Webb Rd., Wichita, KS 67226

Requirements

Simple Requisites

Program Requirements

Unmanned Aircraft Systems, AAS
Type
Completion Requirement

Unmanned Aircraft Systems Course List

Complete ALL of the following Courses:

- UAS180 - Ground School - 4 Credits
- UAS185 - Multi-Rotor Flight - 4 Credits
- UAS190 - Videography - 4 Credits
- UAS220 - UAS Multi-Rotor Maintenance - 6 Credits
- UAS225 - Post-Processing - 3 Credits
- UAS235 - Small Business Fundamentals - 3 Credits
- UAS240 - Multi-Rotor Instructor - 6 Credits
- UAS250 - Advanced Post-Processing - 6 Credits
- UAS255 - Advanced Payloads - 3 Credits
- UAS260 - Fixed-Wing Construction - 3 Credits
- UAS265 - Fixed-Wing UAS Flight - 3 Credits
- UAS273 - Capstone - 4 Credits
  OR UAS275 - Internship - 4 Credits
- ENG101 - Composition I - 3 Credits
- MTH112 - College Algebra - 3 Credits

General Education Requirement

Earn at least 3 credits from the following:

- Communication Elective

General Education Requirement

Earn at least 3 credits from the following:

- Humanities Elective

General Education Requirement

Earn at least 3 credits from the following:

- Social Sciences Elective

Entry Requirements
Be 16 years of age or older, Documentation of high school graduation or satisfaction of high school equivalency certificate requirements, or students currently enrolled in high school or GED program and have attained junior status

Degree Maps

Degree Map Name
Unmanned Aircraft Systems
Total Degree Map Credits
64
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	0

Requirement Select

- UAS180 - Ground School

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- UAS185 - Multi-Rotor Flight

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select

- UAS190 - Videography

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select

- MTH112 - College Algebra

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select

- UAS220 - UAS Multi-Rotor Maintenance

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select
- UAS225 - Post-Processing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- UAS235 - UAS Small Business Fundamentals

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- ENG101 - Composition I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	18	6

Requirement Select
- UAS240 - Multi-Rotor Instructor

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select
- UAS250 - Advanced Post-Processing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select
- Communication Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Humanities Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	16	3

Requirement Select
- UAS255 - Advanced Payloads

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- UAS260 - Fixed-Wing Construction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- UAS265 - Fixed-Wing UAS Flight

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- UAS273 - Capstone

OR
- UAS275 - Internship

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	180
Clinical	-
Criticality	No

Requirement Select
- Social Sciences Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

AAS-VET_TECH - Veterinary Nursing, AAS

Overview

Department(s)
Health Sciences

Degree Designation
Associate of Applied Science

Catalog Full Description
The Veterinary Nursing program prepares the student for a career as a veterinary nurse. Upon completion of the curriculum, the student is eligible to take the Veterinary Technician National Examination (VTNE) toward certification as a credentialed veterinary nurse. The curriculum includes practical and theoretical course work which prepares the student for employment in various areas of animal healthcare including veterinary hospitals, veterinary clinics, research facilities, and diagnostic laboratories. The instruction in this program consists of skills and concepts related to; patient management, patient care, clinical procedures, communication with owners, animal nursing care, animal health/nutrition, animal handling, clinical pathology, radiology, anesthesiology, dental prophylaxis, surgical assisting, clinical laboratory procedures, office administration skills, patient and owner management, and applicable standards and regulations.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Veterinary Nursing, AAS - $20,108.00

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.

Campus Location
WSU Tech South – 3821 E. Harry, Wichita, KS 67218

Requirements

Simple Requisites

Program Requirements

Veterinary Nursing, AAS
Type
Completion Requirement

Veterinary Nursing Requirement

Complete ALL of the following Courses:
- VET101 - Intro to Veterinary Nursing - 3 Credits
- VET110 - Vet Anatomy and Physiology - 4 Credits
- VET105 - Vet Business Proc/Office Mgmt - 2 Credits
- VET115 - Vet Clinical Pathology I - 3 Credits
- VET120 - Vet Nursing Procedures I - 3 Credits
- VET130 - Vet Emergency, Critical Medic - 2 Credits
- VET140 - Veterinary Pharmacology - 2 Credits
- VET200 - Vet Professional Wellness - 2 Credits
- VET215 - Vet Clinical Pathology II - 3 Credits
- VET220 - Vet Nursing Procedures II - 2 Credits
- VET230 - Vet Diagnostic Imaging w/Lab - 3 Credits
- VET240 - Vet Anesthesia & Surg Assist - 3 Credits
- VET250 - Large Animal Disease/Med Care - 2 Credits
- VET260 - Vet Clinical Pathology III - 3 Credits
- VET265 - Avian, Exotic & Lab Animals - 2 Credits
- VET270 - Veterinary Nursing Seminar - 1 Credits

- VET275 - Veterinary Clinical Practicum - 6 Credits
- BIO110 - Principles of Biology - 5 Credits
- CHM110 - General Chemistry - 5 Credits
- ENG101 - Composition I - 3 Credits

General Education Requirement

Complete ANY of the following Course Sets:

- Communication Elective

General Education Requirement

Complete ANY of the following Course Sets:

- Humanities Elective

General Education Requirement

Complete ANY of the following Course Sets:

- Math Elective

Entry Requirements

- Be 18 years of age or older
- Documentation of high school graduation or satisfaction of high school equivalency certificate requirements.

List additional Program Admission Requirements
Admission Requirements VET Program

- Principles of Biology - Minimum score of "B" acceptable for no more than 5 years after completion date
- General Chemistry - Minimum score of "B" acceptable for no more than 5 years after completion date
- ENG 101 English Composition - Minimum score of "B"
- Math Elective - Minimum score of "B"
- Humanities Elective - Minimum score of "B"
- Communication Elective- Minimum score of "B"

Degree Maps

Degree Map Name
Veterinary Nursing, AAS
Total Degree Map Credits
68
Degree Map Effective Catalog Year
2026 -
Degree Map Narrative
The following courses must be completed prior to admission the Veterinary Nursing program. BIO 110, CHM 110, ENG 101, Communication, Humanities, and Math Elective

Year	Semester	Actual Credits	Progress Credits
-	-	22	9

Requirement Select

- BIO110 - Principles of Biology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select

- CHM110 - General Chemistry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select

- ENG101 - Composition I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- Communication Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Humanities Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Math Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	14	0

Requirement Select
- VET101 - Introduction to Veterinary Nursing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- VET110 - Veterinary Anatomy and Physiology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select
- VET115 - Veterinary Clinical Pathology I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- VET140 - Veterinary Pharmacology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- VET200 - Veterinary Professional Wellness

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	12	0

Requirement Select
- VET120 - Veterinary Nursing Procedures I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select

- VET130 - Veterinary Emergency, Critical Medicine and Hospital Procedures

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- VET215 - Veterinary Clinical Pathology II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select

- VET250 - Veterinary Nursing: Large Animal Disease and Medical Care

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- VET265 - Veterinary Nursing Procedures: Avian, Exotic and Lab Animals Disease and Medical Care

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	6	0

Requirement Select

- VET275 - Veterinary Clinical Practicum

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	270
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	14	0

Requirement Select

- VET105 - Veterinary Business Procedures/Office Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select

- VET220 - Veterinary Nursing Procedures II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- VET230 - Veterinary Diagnostic Imaging with Lab

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- VET240 - Veterinary Anesthesia and Surgical Assisting

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- VET260 - Veterinary Clinical Pathology III

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- VET270 - Veterinary Nursing Seminar

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

AAS-WELD - Welding Technology, AAS

Overview

Department(s)
Manufacturing

Degree Designation
Associate of Applied Science

Catalog Full Description
This program allows students to gain knowledge and skills in cutting, arc welding, MIG and TIG welding and provides some exposure to oxy-acetylene cutting and welding. Program includes classroom and lab instruction in safety, blueprint reading and sketching, tools and materials used in the various forms of welding, machine adjustments and rod selection, skill requirements for various welding positions, weld testing and qualifications, fabrication and layout of various welding projects. Students will have the opportunity to complete one or more American Welding qualification tests. Students will round off their educational experience by completing 15 credits of general education courses in five areas of study including mathematics, natural and social sciences, English and communications. The WSU Tech Welding Technology program is aligned with the National Center for Education Statistics CIP code 48.0508: Welding Technology/Welder prepares individuals to apply technical knowledge and skills to join or cut metal surfaces. Includes instruction in arc welding, resistance welding, brazing and soldering, cutting, high-energy beam welding and cutting, solid state welding, ferrous and non-ferrous materials, oxidation-reduction reactions, welding metallurgy, welding processes and heat treating, structural design, safety, and applicable codes and standards.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Welding Technology, AAS - $17,601.00

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.

Campus Location
WSU Tech City Center – 301 S. Grove, Wichita, KS 67211

Requirements

Simple Requisites

Program Requirements

Welding Technology, AAS
Type
Completion Requirement

Welding Technology Requirements

Complete ALL of the following Courses:
- CWG103 - Blue Print Reading for Welders - 3 Credits
- CWG105 - Welding Safety & Orientation - 1 Credits
- CWG115 - SMAW - 3 Credits
- CWG116 - SMAW II - 4 Credits
- CWG120 - GMAW - 3 Credits
- CWG121 - GMAW II - 4 Credits
- CWG125 - GTAW - 3 Credits
- CWG126 - GTAW II - 4 Credits
- CWG141 - Oxy-Acetylene Weld & Cutting - 2 Credits
- CWG145 - Fabrication & Design - 2 Credits
- CWG149 - Materials & Testing - 2 Credits
- AVC110 - Safety/OSHA 10 - 1 Credits
- ENG101 - Composition I - 3 Credits
- PDV115 - Work Ethics - 2 Credits

Welding Technology Requirements

Complete 2 - 4 course(s) and earn 8 or more credits from the following:
- CWG110 - Welding Applications - 4 Credits
- CWG130 - Robotic Welding - 4 Credits
- CWG135 - Measurement and Specification - 1 Credits
- CWG155 - Flux Cored Arc Welding - 4 Credits
- CWG160 - Welding Internship - 4 Credits
- MCD101 - Introduction to CAD I - 3 Credits
- MCD102 - Introduction to CAD II - 2 Credits

Welding Technology Requirements

Complete ANY of the following Courses:

- CWG242 - SMAW D1.1 Qualification - 4 Credits
  OR CWG243 - GMAW D1.1 Qualification - 4 Credits

General Education Requirement

Complete ANY of the following Course Sets:

- Communication Elective

General Education Requirement

Complete ANY of the following Course Sets:

- Humanities Elective

General Education Requirement

Complete ANY of the following Course Sets:

- Math Elective

General Education Requirement

Complete ANY of the following Course Sets:

- Social Sciences Elective

Entry Requirements
Be 16 years of age or older

Degree Maps

Degree Map Name
Welding Technology, AAS
Total Degree Map Credits
67
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	20	4

Requirement Select

- CWG103 - Blue Print Reading for Welders

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- CWG105 - Welding Safety & Orientation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select

- CWG120 - GMAW

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select

- CWG121 - GMAW II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select

- CWG141 - Oxy Acetylene Welding & Cutting

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- AVC110 - Safety/OSHA 10

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- PDV115 - Work Ethics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- Welding Technology Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	4
Contact Hours	4
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	17	10

Requirement Select
- CWG115 - SMAW

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- CWG116 - SMAW II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select
- Welding Technology Level 2 Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	4
Contact Hours	4
Clinical	-
Criticality	No

Requirement Select
- Communication Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Math Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	6	0

Requirement Select
- CWG145 - Fabrication & Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- CWG242 - SMAW D1.1 Qualification
  OR
- CWG243 - GMAW D1.1 Qualification

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	120
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	24	6

Requirement Select
- CWG125 - GTAW
- **AND** CWG126 - GTAW II
- **AND** CWG149 - Materials & Testing
- **AND** ENG101 - Composition I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	12
Progress Credits	-
Contact Hours	270
Clinical	-
Criticality	No

Requirement Select
- CWG126 - GTAW II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select
- CWG149 - Materials & Testing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- Humanities Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Social Sciences Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

CC-CNA - Certified Nurse Aide, COC

Overview

Department(s)
Health Sciences

Degree Designation
Certificate of Completion

Catalog Full Description
The Certified Nurse Aide (CNA) program prepares students to be caregivers in nursing homes while working under the supervision of licensed nurses. The instruction includes classroom, laboratory and clinical experiences. Students must successfully complete a competency skills checklist, maintain attendance as defined in the course syllabus and achieve satisfactory grades. Daytime classes meet for approximately five weeks, and evening classes meet for approximately

three months. The program meets the guidelines of the Kansas Department on Aging and Disability Services and graduates may take the state examination to become CNAs after successful completion of the course.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Certified Nurse Aide, COC - $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.

Campus Location
WSU Tech South – 3821 E. Harry, Wichita, KS 67218

Requirements

Simple Requisites

Program Requirements

Certified Nurse Aide, COC
Type
Completion Requirement

Certified Nurse Aide Requirement

Complete ALL of the following Courses:

- CNA101 - Certified Nurse Aide - 5 Credits

Entry Requirements

- Be 16 years of age or older
- Provide documentation of a negative PPD TB skin test within the last year or negative chest x-ray within the last three years
- Documentation of COVID vaccination or completion of the Exemption Request Document
- Copy of your social security card

Degree Maps

Degree Map Name
Certified Nurse Aide , TC
Total Degree Map Credits
5
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	5	0

Requirement Select

- CNA101 - Certified Nurse Aide

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	120
Clinical	-
Criticality	No

Total General Education Credits
0
Total Major Credits
0
Total Minor Credits
0
Total Elective Credits
0

CC-EDDY_CURR - Eddy Current Technician, COC

Overview

Department(s)
Aviation

Degree Designation
Certificate of Completion

Catalog Full Description
The associate degree program is a sequence of courses designed to produce a technician who understands NDTs role in the aerospace industry, has mastered the American Society for Nondestructive Testing coursework for Levels I and II certification and has the depth and breadth of knowledge which comes from general education courses. In this program students will complete Levels I and II ASNT competencies for six NDT methods including liquid penetrant, ultrasonic, eddy current, visual, radiography and magnetic particle inspection. Students will round off their educational experience by completing 20 credits of general education courses in five areas of study including humanities, mathematics, natural and social sciences, English and communications.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Eddy Current Technician, COC - $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 combination of elective credits required.

Campus Location
WSU Tech Main Campus - National Center for Aviation Training (NCAT) - 4004 N. Webb Rd., Wichita, KS 67226

Requirements

Simple Requisites

Program Requirements

Eddy Current Technician
Type

Completion Requirement

Eddy Current Technician Requirement

Complete ALL of the following Courses:

- NDT106 - Formulations and Calculations - 2 Credits
- NDT110 - Eddy Current Level I - 3 Credits
- NDT111 - Eddy Current Level II - 3 Credits

Entry Requirements
Be 18 years of age or older

Degree Maps

Degree Map Name
Eddy Current Technician
Total Degree Map Credits
8
Degree Map Effective Catalog Year
2026 - 9999

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	8	0

Requirement Select

- NDT106 - Formulations and Calculations

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select

- NDT110 - Eddy Current Level I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	40
Clinical	-
Criticality	No

Requirement Select

- NDT111 - Eddy Current Level II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Total General Education Credits
0
Total Major Credits
0
Total Minor Credits
0
Total Elective Credits
0

CC-EM_MEDTEC - Emergency Medical Technician, COC

Overview

Department(s)
Health Sciences

Degree Designation
Certificate of Completion

Catalog Full Description
The goal of the Emergency Medical Services- EMT program is to produce competent, entry level Emergency Medical Technicians to serve in career positions in the community. This program is designed to equip students with the highest level of pre-hospital care. The program consists of four components of instruction: didactic instruction, skills laboratory, clinical experience and field internship. Students are prepared to care for the sick and injured in emergency medical settings. The program prepares students to develop quick reactions and competent care practices to respond to emergency calls, perform medical services and transport patients to medical facilities. This program establishes a student's EMT-Basic certification.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Emergency Medical Technician, COC - $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.

Campus Location
WSU Tech South – 3821 E. Harry, Wichita, KS 67218

Requirements

Simple Requisites

Program Requirements

Emergency Medical Technician
Type
Completion Requirement

Emergency Medical Technician Requirment

Complete ANY of the following Course Sets:

- Emergency Medical Technician

Entry Requirements
Documentation of high school graduation or satisfaction of high school equivalency certificate requirements, or students currently enrolled in high school or GED program and have attained junior status and the student must be at least 17 years of age by the end of the semester, Documented negative PPD TB skin test within the last year or negative chest X - Ray within the last three years, Completion of application and related procedures

Degree Maps

Degree Map Name
Emergency Medical Technician
Total Degree Map Credits
12
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	12	12

Requirement Select
- Emergency Medical Technician

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	12
Progress Credits	12
Contact Hours	12
Clinical	-
Criticality	No

Total General Education Credits
0
Total Major Credits
0
Total Minor Credits
0
Total Elective Credits
0

CC-HOME_HLTH - Home Health Aide, COC

Overview

Department(s)
Health Sciences

Degree Designation
Certificate of Completion

Catalog Full Description
The Home Health Aide course prepares the certified nurse aide (CNA) to care for clients in community and home settings. Graduates may take an examination to become a certified home health aide. Documentation and identification of client needs is an important part of this course. Many home health aides are also hired to work at hospice agencies and with agencies working with children.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Home Health Aide, COC - $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.

Campus Location
WSU Tech South – 3821 E. Harry, Wichita, KS 67218

Requirements

Simple Requisites

Program Requirements

Home Health Aide
Type
Completion Requirement

Home Health Aide Requirements

Complete ALL of the following Courses:
- HHA100 - Home Health Aide - 2 Credits

Entry Requirements
- A current Kansas Certified Nurse Aide Certification
- Documentation of COVID vaccination or completion of the Exemption Request Document
- Complete all college admission documents

Degree Maps

Degree Map Name
Home Health Aide
Total Degree Map Credits
2
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	2	0

Requirement Select
- HHA100 - Home Health Aide

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Total General Education Credits
0
Total Major Credits
0
Total Minor Credits
0
Total Elective Credits
0

CC-MED_AIDE - Certified Medication Aide, COC

Overview

Department(s)
Health Sciences

Degree Designation
Certificate of Completion

Catalog Full Description
The Certified Medication Aide program 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. This program builds upon the role of a certified nurse aide (CNA) and includes accurately measuring, administering and documenting medications to residents.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Certified Medication Aide, COC - $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.

Campus Location
WSU Tech South – 3821 E. Harry, Wichita, KS 67218

Requirements

Simple Requisites

Program Requirements

Certified Medication Aide, COC
Type
Completion Requirement

Certified Medication Aide Requirements

Complete ALL of the following Courses:

- CMA119 - Medication Aide - 5 Credits

Entry Requirements

- Be 18 years of age or older, Successfully complete pre admission testing
- Provide documentation of a negative PPD TB skin test within the last six months or negative chest X-ray within the last three years
- Documentation of COVID vaccination or completion of the Exemption Request Document
- Possess a current Kansas Certified Nurse Aide certificate with no pending or current prohibitions against the individual's certification
- Copy of Social Security card on file

Degree Maps

Degree Map Name
Certified Medication Aide, COC
Total Degree Map Credits
5
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	5	0

Requirement Select

- CMA119 - Medication Aide

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	80
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

CC-MGNTC_PRT - Magnetic Particle Technician, COC

Overview

Department(s)
Aviation

Degree Designation
Certificate of Completion

Catalog Full Description
The Magnetic Particle certificate prepares students for a career as a magnetic particle practitioner in varied industries to include aviation, defense, petrochemical, utilities, nuclear and maritime. Courses are aligned to meet the Level 1 and Level 2 requirements of National Aerospace Standard 410 and the American Society for Nondestructive Testing recommended practice SNT-TC-1A for organized formal training. Students completing the magnetic particle technician certificate are prepared for direct entry into employment in the magnetic particle testing method.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Magnetic Particle Technician, COC - $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 combination of elective credits required.

Campus Location
WSU Tech Main Campus - National Center for Aviation Training (NCAT) - 4004 N. Webb Rd., Wichita, KS 67226

Requirements

Simple Requisites

Program Requirements

Magnetic Particle Technician
Type
Completion Requirement

Magnetic Particle Technician Requirements

Complete ALL of the following Courses:

- NDT101 - Magnetic Particle Testing - 3 Credits
- NDT106 - Formulations and Calculations - 2 Credits
- NDT114 - Visual Inspection - 2 Credits

Entry Requirements
Be 18 years of age or older

Degree Maps

Degree Map Name
Magnetic Particle Technician
Total Degree Map Credits
7
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	7	0

Requirement Select

- NDT101 - Magnetic Particle Testing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	40
Clinical	-
Criticality	No

Requirement Select

- NDT106 - Formulations and Calculations

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select

- NDT114 - Visual Inspection

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

CC-PENET_TEC - Penetrant Technician, COC

Overview

Department(s)
Aviation

Degree Designation
Certificate of Completion

Catalog Full Description
The associate degree program is a sequence of courses designed to produce a technician who understands NDTs role in the aerospace industry, has mastered the American Society for Nondestructive Testing coursework for Levels I and II certification and has the depth and breadth of knowledge which comes from general education courses. In this program students will complete Levels I and II ASNT competencies for six NDT methods including liquid penetrant, ultrasonic, eddy current, visual, radiography and magnetic particle inspection. Students will round off their educational experience by completing 20 credits of general education courses in five areas of study including humanities, mathematics, natural and social sciences, English and communications.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Penetrant Technician, TC - $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 combination of elective credits required.

Campus Location
WSU Tech Main Campus - National Center for Aviation Training (NCAT) - 4004 N. Webb Rd., Wichita, KS 67226

Requirements

Simple Requisites

Program Requirements

Penetrant Technician, COC
Type
Completion Requirement

Penetrant Technician Requirements

Complete ALL of the following Courses:

- NDT100 - Penetrant Inspection - 3 Credits
- NDT114 - Visual Inspection - 2 Credits

Entry Requirements
Be 18 years of age or older

Degree Maps

Degree Map Name
Penetrant Technician, COC
Total Degree Map Credits

5

Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	5	0

Requirement Select
- NDT100 - Penetrant Inspection

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- NDT114 - Visual Inspection

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Total General Education Credits
0
Total Major Credits
0
Total Minor Credits
0
Total Elective Credits
0

CC-RADIO_TEC - Radiography Technician, COC

Overview

Department(s)
Aviation

Degree Designation
Certificate of Completion

Catalog Full Description
The associate degree program is a sequence of courses designed to produce a technician who understands NDTs role in the aerospace industry, has mastered the American Society for Nondestructive Testings coursework for Levels I and II certification and has the depth and breadth of knowledge which comes from general education courses. In this program students will complete Levels I and II ASNT competencies for six NDT methods including liquid penetrant, ultrasonic, eddy current, visual, radiography and magnetic particle inspection. Students will round off their educational experience by completing 20 credits of general education courses in five areas of study including humanities, mathematics, natural and social sciences, English and communications.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Radiography Technician, COC - $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 combination of elective credits required.

Campus Location
WSU Tech Main Campus - National Center for Aviation Training (NCAT) - 4004 N. Webb Rd., Wichita, KS 67226

Requirements

Simple Requisites

Program Requirements

Radiography Technician
Type
Completion Requirement

Radiography Technician Course List

Complete ALL of the following Courses:
- NDT102 - Radiation Safety - 3 Credits
- NDT103 - Radiographic Testing Level II - 3 Credits
- NDT106 - Formulations and Calculations - 2 Credits
- NDT107 - Radiographic Testing Level I - 3 Credits

Entry Requirements
Be 18 years of age or older

Degree Maps

Degree Map Name
Radiography Technician
Total Degree Map Credits
11
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	11	0

Requirement Select
- NDT102 - Radiation Safety

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- NDT103 - Radiographic Testing Level II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- NDT106 - Formulations and Calculations

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- NDT107 - Radiographic Testing Level I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	40
Clinical	-
Criticality	No

Total General Education Credits
0

Total Major Credits
0

Total Minor Credits
0

Total Elective Credits
0

CC-ULTRA_TEC - Ultrasonic Technician, COC

Overview

Department(s)
Aviation

Degree Designation
Certificate of Completion

Catalog Full Description
The associate degree program is a sequence of courses designed to produce a technician who understands NDTs role in the aerospace industry, has mastered the American Society for Nondestructive Testing coursework for Levels I and II certification and has the depth and breadth of knowledge which comes from general education courses. In this program students will complete Levels I and II ASNT competencies for six NDT methods including liquid penetrant, ultrasonic, eddy current, visual, radiography and magnetic particle inspection. Students will round off their educational experience by completing 20 credits of general education courses in five areas of study including humanities, mathematics, natural and social sciences, English and communications.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Ultrasonic Technician, COC - $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 combination of elective credits required.

Campus Location
WSU Tech Main Campus - National Center for Aviation Training (NCAT) - 4004 N. Webb Rd., Wichita, KS 67226

Requirements

Simple Requisites

Program Requirements

Ultrasonic Technician, COC
Type
Completion Requirement

Ultrasonic Technician Requirements

Complete ALL of the following Courses:
- NDT106 - Formulations and Calculations - 2 Credits
- NDT112 - Ultrasonic Test Method Lvl I - 3 Credits
- NDT113 - Ultrasonic Test Method Lvl II - 3 Credits
- NDT123 - Adv Ultrasonic Testing Methods - 5 Credits

Entry Requirements
Be 18 years of age or older

Degree Maps

Degree Map Name
Ultrasonic Technician
Total Degree Map Credits
13
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	13	0

Requirement Select
- NDT106 - Formulations and Calculations

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- NDT112 - Ultrasonic Testing Method Level I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	40
Clinical	-
Criticality	No

Requirement Select
- NDT113 - Ultrasonic Testing Method Level II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- NDT123 - Advanced Ultrasonic Testing Methods

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Total General Education Credits
0
Total Major Credits
0
Total Minor Credits
0
Total Elective Credits
0

TC-ACCT_ING - Accounting, TC

Overview

Department(s)
Professional Studies

Degree Designation
Technical Certificate

Catalog Full Description
The Associate in Applied Science in Accounting program is designed to provide students with a comprehensive foundation in accounting principles and related business skills, including data analysis. This two-year program combines theoretical knowledge with practical applications to prepare students for entry-level positions in accounting.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Accounting, TC - $7,005.00

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.

Campus Location
WSU Tech South – 3821 E. Harry, Wichita, KS 67218

Requirements

Simple Requisites

Program Requirements

Accounting, TC
Type
Completion Requirement

Accounting Requirements

Complete ALL of the following Courses:
- ACC105 - Fundamentals of Accounting - 3 Credits
- ACC130 - Managerial Accounting - 3 Credits
- ACC137 - QuickBooks - 3 Credits
- ACC160 - Principles of Accounting I - 3 Credits
- ACC170 - Principles of Accounting II - 3 Credits
- ACC230 - Tax Accounting - 3 Credits
- AAD110 - Data Exploration and Interpret - 3 Credits
- AAD120 - Data Visualization - 3 Credits
- BUS104 - Introduction to Business - 3 Credits
- CED115 - Computer Applications - 3 Credits
- ENG101 - Composition I - 3 Credits
- MTH108 - Contemporary Math - 3 Credits
- PHL110 - Ethics - 3 Credits
- SPH101 - Public Speaking - 3 Credits

Degree Maps

Degree Map Name
Accounting, TC
Total Degree Map Credits
42
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	12	0

Requirement Select
- ACC105 - Fundamentals of Accounting

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- ACC137 - QuickBooks

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- ACC160 - Principles of Accounting I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- ACC170 - Principles of Accounting II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- CED115 - Computer Applications

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- BUS104 - Introduction to Business

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- MTH108 - Contemporary Math

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- SPH101 - Public Speaking

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	12	0

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	6	0

Requirement Select
- AAD110 - Data Exploration and Interpretation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- PHL110 - Ethics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	12	0

Requirement Select
- ACC130 - Managerial Accounting

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- ACC230 - Tax Accounting

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- AAD120 - Data Visualization

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- ENG101 - Composition I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

TC-AER_COAT - Aerospace Coatings & Paint Technology, TC

Overview

Department(s)
Aviation

Degree Designation
Technical Certificate

Catalog Full Description
Aerospace Coatings & Paint Technology associate degree program is a sequence of courses designed to produce an aerospace technician with multiple skill sets, a well rounded understanding of the aerospace industry and the depth and breadth of knowledge which comes from general education courses. This program provides a broad based understanding of coating and paint processes within the aerospace industry. The curriculum includes comprehensive learning experiences in all aspects of the coating and paint industry including formulation, application and specialized areas.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Aerospace Coatings & Paint Technology, TC $14,565.00

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.

Campus Location
WSU Tech Main Campus - National Center for Aviation Training (NCAT) - 4004 N. Webb Rd., Wichita, KS 67226

Requirements

Simple Requisites

Program Requirements

Aerospace Coatings & Paint Technology, TC
Type
Completion Requirement

Aerospace Coatings & Paint Technolgy Requirements

Complete ALL of the following Courses:

- ACP100 - Intro to Coatings & Paint Tech - 3 Credits
- ACP101 - Surface Preparation & Coatings - 4 Credits
- ACP102 - Perf & Durability of Coatings - 3 Credits
- ACP103 - Color Technology - 3 Credits
- ACP104 - Specialized Coatings Processes - 3 Credits
- ACP105 - Specialized Detailing - 3 Credits
- ACP106 - Aerospace Coatings & Materials - 3 Credits
- ACP111 - Technical Co-Operative Project - 4 Credits
- ACP121 - Surface Prep & Coatings II - 3 Credits
- ACP124 - Specialized Coatings Proc II - 4 Credits
- ACP145 - Environmental Health & Safety - 2 Credits
- AVC104 - Quality Control Concepts - 1 Credits
- AVC105 - Aircraft Familiarization - 1 Credits
- AVC107 - Fundamentals for Aerospace Mfg - 1 Credits
- AVC110 - Safety/OSHA 10 - 1 Credits
- AVC112 - Blueprint Reading - 2 Credits
- AVC120 - Introduction to Sealing - 1 Credits
- AVC140 - Electrical Bonding & Grounding - 1 Credits
- MCD106 - Precision Measuring - 2 Credits

Entry Requirements

- Be 16 years of age or older
- Complete college admissions documents

Degree Maps

Degree Map Name
Aerospace Coatings & Paint Technology , TC
Total Degree Map Credits
45
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	0

Requirement Select
- ACP100 - Introduction to Coatings & Paint Technology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- ACP145 - Environmental Health and Safety

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- AVC104 - Quality Control Concepts

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- AVC105 - Aircraft Familiarization

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select

- AVC107 - Fundamentals for Aerospace Manufacturing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select

- AVC110 - Safety/OSHA 10

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select

- AVC112 - Blueprint Reading

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select

- AVC120 - Introduction to Sealing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select

- AVC140 - Electrical Bonding & Grounding

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select

- MCD106 - Precision Measuring

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	7	0

Requirement Select

- ACP101 - Surface Preparation & Coatings

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select

- ACP121 - Surface Preparation & Coatings II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	3	0

Requirement Select
- ACP104 - Specialized Coatings Processes

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	10	0

Requirement Select
- ACP102 - Performance & Durability of Coatings

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- ACP106 - Aerospace Coatings & Materials

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- ACP124 - Specialized Coatings Processes II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	10	0

Requirement Select
- ACP103 - Color Technology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- ACP105 - Specialized Detailing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- ACP111 - Technical Co-Operative Project

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	180
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

TC-ALT_FUEL - Alternative Fuel Vehicle Maintenance & Advanced Electronics, TC

Overview

Department(s)
Applied Technologies

Degree Designation
Technical Certificate

Catalog Full Description
The Alternative Fuel Maintenance & Advanced Electronics program will prepare students to apply technical knowledge and skills to the maintenance of alternative fuel vehicles. Instruction will include, electrical vehicles, liquefied petroleum gas (LPG) vehicles, compressed natural gas (CNG) vehicles, hybrid fuel technology, electrical and electronic systems, engine performance, diagnosis and repair, and conversion/installation. The Alternative Fuel Maintenance & Advanced Electronics

program also allows students to gain skills and knowledge to accurately diagnose, repair, and service various automotive vehicles. The program includes classroom and lab instruction in safety, electrical and electronic systems, suspension and steering, engine performance, manual drive train and axles, heating and air conditioning, engine repair, and brakes. Third-Party Credentialing has become an excellent way to display the knowledge and skills acquired in a program. Students have the opportunity to earn credentials while learning to operate wheel service, wheel alignment, brake service and diagnostic equipment from several different manufacturers. Additionally, students have the opportunity to earn student ASE certifications as a part of the program.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Alternative Fuel Vehicle Maintenance & Advanced Electronics, TC - $12,055

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.

Campus Location
WSU Tech City Center – 301 S. Grove, Wichita, KS 67211

Requirements

Simple Requisites

Program Requirements

Alternative Fuel Vehichle Maintenance & Advanced Electronics, TC
Type
Completion Requirement

Alternative Fuel Vehicle Maintenance & Advanced Electronics Requirements

Complete ALL of the following Courses:

- AFV110 - Electrical I - 3 Credits
- AFV120 - Electrical II - 3 Credits
- AFV130 - Suspension and Steering I - 3 Credits
- AFV135 - Intro to Alternative Fuels - 3 Credits
- AFV140 - Engine Repair - 4 Credits
- AFV145 - Hybrid Systems & Maintenance - 3 Credits
- AFV150 - Electric/Fuel Cell Technology - 1 Credits
- AFV155 - High Volt Battery Tech & Mgmt - 3 Credits
- AFV160 - Brakes I - 3 Credits
- AFV165 - Introduction to CNG and LPG - 1 Credits
- AFV170 - Computer Systems for Alt Fuels - 3 Credits
- AFV175 - Automatic Transmission Repair - 4 Credits
- AFV180 - Heating & Air Conditioning - 4 Credits
- AFV206 - PowerTrain Systems - 4 Credits
- AFV225 - Electrical III - 2 Credits
- TAS105 - Orientation to Transportation - 1 Credits
- TAS160 - Transportation Industry Safety - 1 Credits

Entry Requirements

- Be 16 years of age or older
- Complete college admissions documentation

Degree Maps

Degree Map Name

Alternative Fuel Vehicle Maintenance & Advanced Electronics, TC
Total Degree Map Credits
46
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	23	0

Requirement Select
- AFV110 - Electrical I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- AFV135 - Introduction to Alternative Fuels

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- AFV140 - Engine Repair

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- AFV160 - Brakes I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- AFV180 - Heating & Air Conditioning

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- AFV206 - PowerTrain Systems

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- TAS105 - Orientation to the Transportation Industry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- TAS160 - Transportation Industry Safety

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	19	0

Requirement Select
- AFV120 - Electrical II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- AFV130 - Suspension and Steering I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- AFV145 - Hybrid Systems & Maintenance

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- AFV155 - High Voltage Battery Technology & Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- AFV170 - Computer Systems for Alternative Fuels

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- AFV175 - Automatic Transmission Repair

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	4	0

Requirement Select
- AFV150 - Electric/Fuel Cell Technology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- AFV165 - Introduction to CNG and LPG Conversion, Installation & Maintenance

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- AFV225 - Electrical III

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

TC-AMT_GNRL - Aviation Maintenance General, TC

Overview

Department(s)
Aviation

Degree Designation
Technical Certificate

Catalog Full Description
his program meets the requirements for students to take the exam for the airframe and powerplant mechanic certificate. The certificate authorizes the holder to approve aircraft that has undergone inspection or maintenance for return to service. This curriculum is approved by the Federal Aviation Administration. Graduates from this program are in demand not only in the field of aviation but in other fields that require a high degree of mechanical knowledge.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Aviation Maintenance General, TC - $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.

Campus Location
WSU Tech Main Campus - National Center for Aviation Training (NCAT) - 4004 N. Webb Rd., Wichita, KS 67226

Requirements

Simple Requisites

Program Requirements

Aviation Maintenance General, TC
Type
Completion Requirement

Aviation Maintenance General Requirements

Complete ALL of the following Courses:

- AMT187 - General I - 4 Credits
- AMT188 - General II - 4 Credits
- AMT189 - General III - 5 Credits
- AMT190 - General IV - 5 Credits

Entry Requirements

- Be 16 years of age or older
- Must be able to read and write the English Language

Degree Maps

Degree Map Name
Aviation Maintenance General, TC
Total Degree Map Credits
18
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	18	0

Requirement Select

- AMT187 - General I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select

- AMT188 - General II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select

- AMT189 - General III

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select

- AMT190 - General IV

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Total General Education Credits
0
Total Major Credits
0
Total Minor Credits
0
Total Elective Credits
0

TC-AUTO_TECH - Automotive Technology, TC

Overview

Department(s)
Applied Technologies

Degree Designation
Technical Certificate

Catalog Full Description
This program allows students to gain skills and knowledge to accurately diagnose, repair and service various automotive vehicles. Program includes classroom and lab instruction in safety, electrical and electronic systems, suspension and steering, engine performance, manual drive train and axles, heating and air conditioning, engine repair and brakes. The program has Automotive Service Excellence Foundation accreditation.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Automotive Technology, TC - $12,531.00

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.

Campus Location
WSU Tech City Center – 301 S. Grove, Wichita, KS 67211

Requirements

Simple Requisites

Program Requirements

Automotive Technology, TC
Type
Completion Requirement

Automotive Technology Requirements

Complete ALL of the following Courses:

- TAS105 - Orientation to Transportation - 1 Credits
- TAS121 - Engine Repair - 4 Credits
- TAS124 - Electrical I - 3 Credits
- TAS125 - Electrical II - 3 Credits
- TAS127 - Automatic Transmission Repair - 4 Credits
- TAS128 - Heating & Air Conditioning - 4 Credits
- TAS131 - Engine Performance I - 3 Credits
- TAS132 - Engine Performance II - 3 Credits
- TAS133 - Brakes I - 3 Credits
- TAS134 - Brakes II for Automotive - 1 Credits
- TAS135 - Computer Systems for Auto - 3 Credits
- TAS136 - Suspension and Steering I - 3 Credits
- TAS137 - Suspension and Steering II - 2 Credits
- TAS150 - Specialized Training - 2 Credits
- TAS160 - Transportation Industry Safety - 1 Credits
- TAS206 - PowerTrain Systems - 4 Credits
- TAS225 - Electrical III - 2 Credits
- MTH108 - Contemporary Math - 3 Credits

Entry Requirements

- Be 16 years of age or older
- Meet entrance exam requirements for general education requirements
- Complete college admissions documentation

Degree Maps

Degree Map Name
Automotive Technology, TC
Total Degree Map Credits
49
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	24	0

Requirement Select

- TAS105 - Orientation to the Transportation Industry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select

- TAS121 - Engine Repair

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- TAS127 - Automatic Transmission Repair

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- TAS128 - Heating & Air Conditioning

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- TAS133 - Brakes I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- TAS136 - Suspension and Steering I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- TAS160 - Transportation Industry Safety

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select

- TAS206 - PowerTrain Systems

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	20	0

Requirement Select

- TAS124 - Electrical I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- TAS125 - Electrical II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- TAS131 - Engine Performance I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- TAS132 - Engine Performance II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- TAS135 - Computer Systems for Automotive

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- TAS137 - Suspension and Steering II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- MTH108 - Contemporary Math

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	5	0

Requirement Select
- TAS134 - Brakes II for Automotive

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- TAS150 - Specialized Training

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- TAS225 - Electrical III

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

TC-AVIA-MFG - Aerospace Manufacturing Technology, TC

Overview

Department(s)
Aviation

Degree Designation
Technical Certificate

Catalog Full Description
Aerospace Manufacturing Technology is a sequence of courses designed to produce an assembly mechanic with a well-rounded understanding of the aerospace industry and the depth and breadth of knowledge which comes from general education courses. In this program students will complete a core set of foundational aviation courses and then move on to master the high demand skillset associated with an Aerospace Assembly Mechanic. The coursework will prepare students to complete the certification for Aerospace Core and Aerospace Assembly Mechanic endorsed by the National Association of Manufacturers (NAM).

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Aerospace Manufacturing Technology, TC - $6,720.00

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.

Campus Location
WSU Tech Main Campus - National Center for Aviation Training (NCAT) - 4004 N. Webb Rd., Wichita, KS 67226

Requirements

Simple Requisites

Program Requirements

Aerospace Manufacturing Technology, TC
Type
Completion Requirement

Aerospace Manufacturing Technology Requirement

Complete ALL of the following Courses:

- AER115 - Aerostructures Assembly - 6 Credits
- AVC103 - Geometric Dimension & Toleran - 1 Credits
- AVC105 - Aircraft Familiarization - 1 Credits
- AVC107 - Fundamentals for Aerospace Mfg - 1 Credits
- AVC108 - Aircraft Systems & Components - 4 Credits
- AVC117 - Hand & Power Tools - 4 Credits
- AVC125 - Bonding and Grounding - 1 Credits
- AVC150 - Human Factors - 1 Credits
- ACP100 - Intro to Coatings & Paint Tech - 3 Credits
- CFT101 - Introduction To Composites - 2 Credits

Aerospace Manufacturing Technology Requirement

Earn at least 7 credits from the following:

- AVC102 - Precision Instruments - 1 Credits
- AVC104 - Quality Control Concepts - 1 Credits
- AVC110 - Safety/OSHA 10 - 1 Credits
- AVC112 - Blueprint Reading - 2 Credits
- AVC120 - Introduction to Sealing - 1 Credits
- AVC127 - Aviation Assembly Core - 7 Credits

General Education Requirement

Complete ANY of the following Course Sets:

- Math Elective

Entry Requirements

- Be 18 years of age or older
- Complete math placement exam

Degree Maps

Degree Map Name
Aerospace Manufacturing Technology, TC
Total Degree Map Credits
31
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16	3

Requirement Select

- AER115 - Aerostructures Assembly

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	165
Clinical	-
Criticality	No

Requirement Select

- AVC102 - Precision Instruments
- **AND** AVC104 - Quality Control Concepts
- **AND** AVC110 - Safety/OSHA 10
- **AND** AVC112 - Blueprint Reading
- **AND** AVC120 - Introduction to Sealing
- **AND** AVC140 - Electrical Bonding & Grounding
  OR
- AVC127 - Aviation Assembly Core

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	105 - 120
Clinical	-
Criticality	No

Requirement Select

- Math Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select

- AVC103 - Geometric Dimensioning & Tolerancing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select

- AVC105 - Aircraft Familiarization

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- AVC107 - Fundamentals for Aerospace Manufacturing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- AVC108 - Aircraft Systems & Components

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- AVC117 - Hand & Power Tools

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- AVC125 - Bonding and Grounding

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- AVC150 - Human Factors

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- CFT101 - Introduction To Composites

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

TC-AVI_AIRFR - Aviation Maintenance Airframe, TC

Overview

Department(s)
Aviation

Degree Designation
Technical Certificate

Catalog Full Description
This program meets the requirements for students to take the exam for the airframe and powerplant mechanic certificate. The certificate authorizes the holder to approve aircraft that has undergone inspection or maintenance for return to service. This curriculum is approved by the Federal Aviation Administration. Graduates from this program are in demand not only in the field of aviation but in other fields that require a high degree of mechanical knowledge.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Aviation Maintenance Airframe, TC - $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.

Campus Location
WSU Tech Main Campus - National Center for Aviation Training (NCAT) - 4004 N. Webb Rd., Wichita, KS 67226

Requirements

Simple Requisites

Program Requirements

Aviation Maintenance Airframe, TC
Type
Completion Requirement

Aviation Maintenance Airframe Requirements

Complete ALL of the following Courses:

- AMT233 - Airframe I - 4 Credits
- AMT234 - Airframe II - 5 Credits
- AMT235 - Airframe III - 5 Credits
- AMT236 - Airframe IV - 5 Credits
- AMT237 - Airframe V - 5 Credits
- AMT238 - Airframe VI - 5 Credits
- AMT239 - Airframe VII - 5 Credits

Entry Requirements

- Be 16 years of age or older
- Must be able to read and write the English Language.
- Must pass all courses in Aviation Maintenance General or AMF 191

Degree Maps

Degree Map Name
Aviation Maintenance Airframe, TC
Total Degree Map Credits
34
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	19	0

Requirement Select

- AMT233 - Airframe I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select

- AMT234 - Airframe II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select

- AMT235 - Airframe III

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select

- AMT236 - Airframe IV

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select

- AMT237 - Airframe V

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select
- AMT238 - Airframe VI

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select
- AMT239 - Airframe VII

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

TC-AVI_PWR - Aviation Maintenance Powerplant, TC

Overview

Department(s)
Aviation

Degree Designation
Technical Certificate

Catalog Full Description
his program meets the requirements for students to take the exam for the airframe and powerplant mechanic certificate. The certificate authorizes the holder to approve aircraft that has undergone inspection or maintenance for return to service. This curriculum is approved by the Federal Aviation Administration. Graduates from this program are in demand not only in the field of aviation but in other fields that require a high degree of mechanical knowledge.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Aviation Maintenance Powerplant, TC - $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.

Campus Location
WSU Tech Main Campus - National Center for Aviation Training (NCAT) - 4004 N. Webb Rd., Wichita, KS 67226

Requirements

Simple Requisites

Program Requirements

Aviation Maintenance Powerplant, TC
Type
Completion Requirement

Aviation Maintenance Powerplant Requirement

Complete ALL of the following Courses:
- AMT253 - Powerplant I - 4 Credits
- AMT254 - Powerplant II - 5 Credits
- AMT255 - Powerplant III - 5 Credits
- AMT256 - Powerplant IV - 6 Credits
- AMT257 - Powerplant V - 5 Credits

Entry Requirements
- Be 16 years of age or older
- Must be able to read and write the English Language
- Must pass all courses in Aviation Maintenance General or AMF 191

Degree Maps

Degree Map Name
Aviation Maintenance Powerplant, TC
Total Degree Map Credits
25
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	14	0

Requirement Select
- AMT253 - Powerplant I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- AMT254 - Powerplant II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select
- AMT255 - Powerplant III

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	11	0

Requirement Select
- AMT256 - Powerplant IV

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	120
Clinical	-
Criticality	No

Requirement Select
- AMT257 - Powerplant V

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Total General Education Credits
0
Total Major Credits
0
Total Minor Credits
0
Total Elective Credits
0

TC-AVI_TECH - Avionics Technology, TC

Overview

Department(s)
Aviation

Degree Designation
Technical Certificate

Catalog Full Description
The Avionics Technology program prepares students to work in the field of avionics technology. Learning opportunities develop academic, technical and professional knowledge and skills required for job acquisition. The program emphasizes a combination of aircraft and avionics theory and practical application necessary for successful employment. Program graduates receive an Avionics Technology technical certificate that qualifies them as avionics technicians.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Avionics Technology, TC - $12,455.00

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.

Campus Location
WSU Tech Main Campus - National Center for Aviation Training (NCAT) - 4004 N. Webb Rd., Wichita, KS 67226

Requirements

Simple Requisites

Program Requirements

Avionics Technology, TC
Type
Completion Requirement

Avionics Technology Requirements

Complete ALL of the following Courses:
- AVT118 - Fundamentals of Flight - 3 Credits
- AVT128 - Electricity & Electronics I - 4 Credits
- AVT138 - Electricity and Electronics II - 4 Credits
- AVT146 - Avionics - 3 Credits
- AVT156 - Wiring & Cannon Plug Lab - 2 Credits
- AVT166 - Advanced Wiring - 3 Credits
- AVT175 - Troubleshooting Essentials - 3 Credits
- AVT185 - UAS Operations - 3 Credits
- AVT195 - Soldering - 2 Credits
- AVT210 - Comm, Nav & Surveillance Sys I - 5 Credits
- AVT220 - Comm, Nav & Surveillance II - 4 Credits
- AVT230 - Avionics Sys & Troubleshooting - 5 Credits
- AVT240 - Aircraft & Elec for NCATT Apps - 4 Credits

General Education Requirements

Complete ANY of the following Course Sets:
- Math Elective

Entry Requirements
- 16 years of age

- Meet the required placement score for College Algebra (ALEKS 75)
- Complete college admission documentation

Degree Maps

Degree Map Name
Avionics Technology, TC
Total Degree Map Credits
48
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	14	3

Requirement Select
- AVT118 - Fundamentals of Flight

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- AVT128 - Electricity & Electronics I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select
- AVT138 - Electricity and Electronics II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select
- Math Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	11	0

Requirement Select
- AVT146 - Avionics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- AVT156 - Wiring & Cannon Plug Lab

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- AVT166 - Advanced Wiring

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- AVT175 - Troubleshooting Essentials

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	5	0

Requirement Select
- AVT185 - UAS Operations

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- AVT195 - Soldering

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	9	0

Requirement Select
- AVT210 - Communication, Navigation & Surveillance Systems I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	120
Clinical	-
Criticality	No

Requirement Select
- AVT220 - Communication, Navigation & Surveillance Systems II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	9	0

Requirement Select
- AVT230 - Avionics Systems & Troubleshooting

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	120
Clinical	-
Criticality	No

Requirement Select
- AVT240 - Aircraft and Electronics for NCATT Applications

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

TC-BUS_OPMG - Operations Management and Supervision, TC

Overview

Department(s)
Professional Studies

Degree Designation
Technical Certificate

Catalog Full Description
The Business Administration program is designed to provide students with the skills necessary for entry-level employment or advancement within a variety of career fields within the public and private sectors. The two-year program will

prepare students for career opportunities as department and division managers, product managers, production line supervisors, assistant store managers, and entry-level banking and sales representatives. Students will receive training in the areas of accounting, marketing, management, economics, and finance.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Operations Management and Supervision, TC - $5,302.00

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.

Campus Location
WSU Tech South – 3821 E. Harry, Wichita, KS 67218

Requirements

Simple Requisites

Program Requirements

Operations Management and Supervision, TC
Type
Completion Requirement

Operations Management and Supervision Requirements

Complete ALL of the following Courses:

- OPM105 - Op Mgmt for Org Success - 3 Credits
- OPM115 - Introduction to Project Mgmt - 3 Credits
- ACC105 - Fundamentals of Accounting - 3 Credits
- ACC160 - Principles of Accounting I - 3 Credits
- ACC170 - Principles of Accounting II - 3 Credits
- BUS104 - Introduction to Business - 3 Credits
- BUS125 - Business Law - 3 Credits
- BUS200 - Principles of Management - 3 Credits
- LGM101 - Principles Logistics & Supply - 3 Credits
- SPH101 - Public Speaking - 3 Credits

General Education Requirement

Complete ANY of the following Course Sets:

- Humanities Elective

Degree Maps

Degree Map Name
Operations Management and Supervision, TC
Total Degree Map Credits
33
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	12	0

Requirement Select

- ACC105 - Fundamentals of Accounting

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- BUS104 - Introduction to Business

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- BUS200 - Principles of Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- LGM101 - Principles of Logistics and Supply Chain Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	12	0

Requirement Select
- OPM105 - Operations Management for Organizational Success

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- ACC160 - Principles of Accounting I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- BUS125 - Business Law

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- SPH101 - Public Speaking

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	9	3

Requirement Select
- OPM115 - Introduction to Project Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- ACC170 - Principles of Accounting II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- Humanities Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

TC-CARPENTRY - Construction Technology Level 1, TC

Overview

Department(s)
Applied Technologies

Degree Designation
Technical Certificate

Catalog Full Description
The Construction Technology program prepares students in the basic skills necessary for all occupations in construction. Students begin their studies in nine modules, which include; safety, math materials, hand and power tools, construction drawings, basic rigging, communication and employability skills. Student then advance to courses with provide hands- on application of technical knowledge and skills. In these courses students apply all aspects of carpentry and will receive

instruction in technical mathematics, framing construction materials and selection; job estimating; blueprint reading, foundations and roughing -in, finish carpentry techniques and applicable codes and standards. The WSU Tech Construction Technology program is aligned with the National Center for Education Statistics CIP code 46.0201: Carpentry/Carpenter prepares individuals to apply technical knowledge and skills to lay out, cut, fabricate, erect, install, and repair wooden structures and fixtures, using hand and power tools. Includes instruction in technical mathematics, framing, construction materials and selection, job estimating, blueprint reading, foundations and roughing-in, finish carpentry techniques, and applicable codes and standards.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Construction Technology Level 1, TC - $5,005.00

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.

Campus Location
WSU Tech City Center – 301 S. Grove, Wichita, KS 67211, CTEC + WSU Tech – 1301 E. 27th Terrace, Pittsburg, KS 66762

Requirements

Simple Requisites

Program Requirements

Construction Technology Level 1, TC
Type
Completion Requirement

Construction Technology Level 1 Requirement

Complete ALL of the following Courses:

- CCP100 - Introductory Craft Skills - 3 Credits
- CCP108 - Construction Basics - 2 Credits
- CCP112 - Carpentry I - 3 Credits
- CCP122 - Carpentry II - 4 Credits
- CCP134 - Intro to Concrete Construction - 3 Credits
- SAF101 - Safety Orientation/OSHA 10 - 1 Credits

Entry Requirements

· Be 16 years of age or older

· Show documentation of high school graduation or satisfaction of high school equivalency prior to graduation from the program

· Meet entrance exam requirements for general education requirements

· Complete college admissions documentation

Degree Maps

Degree Map Name
Construction Technology Level 1, TC
Total Degree Map Credits
16
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16	0

Requirement Select

- CCP100 - Introductory Craft Skills

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- CCP108 - Construction Basics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select

- CCP112 - Carpentry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- CCP122 - Carpentry II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select
- CCP134 - Introduction to Concrete Construction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- SAF101 - Safety Orientation/OSHA 10

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Total General Education Credits
0

Total Major Credits
0

Total Minor Credits
0

Total Elective Credits
0

TC-CLD_COMP - Cloud Computing/Cloud Application Development, TC

Overview

Department(s)
Information Technology

Degree Designation
Technical Certificate

Catalog Full Description
Cloud based operations provide industries with enhanced up time and security as well as the ability to manage maintenance costs and scalability. In short, it is far more competitive to run applications on the cloud. In this hands-on learning path, students will start with the basic fundamental concepts of object-oriented programming, continuous integration continuous delivery, test-driven development, HTML/CSS/Web-Application development, cloud fundamentals, and multi-cloud development services. With these essential skills in place students will learn how to build a full-stack React web-application on Amazon Web Services (AWS); React is supported and maintained by Facebook for Facebook. With step-by-step guidance through the frontend and the backend students will cover all the different aspects of building their first full-stack React app on the cloud that will be accessible from any internet-facing device - including mobile devices. At the end of this learning path, students will convert their Reach application into a fully automated full-stack serverless cloud application that will be highly available, globally scalable, and on par with Facebook, Netflix, YouTube, or any other performant cloud application to date.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Cloud Computing/Cloud Application Development, TC - $12,709.00

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

Campus Location
WSU Tech South – 3821 E. Harry, Wichita, KS 67218

Requirements

Simple Requisites

Program Requirements

Cloud Computing/Cloud Application Development
Type
Completion Requirement

Cloud Computing/Cloud Application Development Requirements

Complete ALL of the following Courses:
- CLD113 - Introduction to Python - 3 Credits
- CLD118 - Cloud Fundamentals - 3 Credits
- CLD121 - OOP (JavaScript) - 3 Credits
- CLD122 - Intro to Web Development - 3 Credits
- CLD126 - Test Driven Dvlmt (JavaScript) - 3 Credits
- CLD138 - OOP (Python) - 3 Credits
- CLD143 - Web App Dev I (HTML/CSS) - 3 Credits
- CLD152 - Web App Dev II (REACT) - 3 Credits
- CLD166 - Cloud App Dev I (REACT on AWS) - 3 Credits
- CLD168 - AWS Cloud Practitioner - 3 Credits
- CLD170 - Cloud App Dev II (Serverless) - 3 Credits
- CLD174 - Cloud Capstone - 3 Credits
  OR CLD175 - Info Technology Internship - 3 Credits

Cloud Computing/Cloud Application Development Elective

Earn at least 12 credits from the following:
- CLD129 - Progrm Foundations (Swift iOS) - 3 Credits
- CLD137 - C# Programming Language - 3 Credits
- CLD141 - Test Driven Develop (Python) - 3 Credits
- CLD147 - Website Production & Mgmt - 3 Credits
- CLD158 - Multi-Cloud Develop Services - 3 Credits
- CLD169 - Machine Learning and AI Fdn - 3 Credits
- INF105 - CompTIA A+ Core 1 - 3 Credits
- INF112 - Network Essentials - 3 Credits

Degree Maps

Degree Map Name
Cloud Computing/Cloud Application Development, TC
Total Degree Map Credits
48
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	12	0

Requirement Select
- CLD113 - Introduction to Python

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- CLD118 - Cloud Fundamentals

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- CLD138 - Object-Oriented Programming (Python)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- CLD168 - AWS Cloud Practitioner

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	12	6

Requirement Select
- CLD121 - Object-Oriented Programming (JavaScript)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- CLD126 - Test Driven Development (JavaScript)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- Cloud Computing Electives

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- Cloud Computing Electives

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	6	3

Requirement Select

- CLD122 - Introduction to Web Development

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select

- Cloud Computing Electives

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	12	0

Requirement Select

- CLD143 - Web Application Development I (HTML/CSS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- CLD152 - Web Application Development II (REACT)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- CLD166 - Cloud Application Development I (REACT on AWS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- CLD170 - Cloud Application Development II (Serverless REACT on AWS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	6	3

Requirement Select

- CLD174 - Cloud Capstone
  OR
- CLD175 - Information Technology Internship

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	90 - 135
Clinical	-
Criticality	No

Requirement Select

- Cloud Computing Electives

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**

0	0

TC-CLD_PROG - Cloud Computing/Cloud Application Development, TC

Overview

Department(s)
Information Technology

Degree Designation
Technical Certificate

Catalog Full Description
Cloud based operations provide industries with enhanced up time and security as well as the ability to manage maintenance costs and scalability. In short, it is far more competitive to run applications on the cloud. In this hands-on learning path, students will start with the basic fundamental concepts of object-oriented programming, continuous integration continuous delivery, test-driven development, HTML/CSS/Web-Application development, cloud fundamentals, and multi-cloud development services. With these essential skills in place students will learn how to build a full-stack React web-application on Amazon Web Services (AWS); React is supported and maintained by Facebook for Facebook. With step-by-step guidance through the frontend and the backend students will cover all the different aspects of building their first full-stack React app on the cloud that will be accessible from any internet-facing device - including mobile devices. At the end of this learning path, students will convert their Reach application into a fully automated full-stack serverless cloud application that will be highly available, globally scalable, and on par with Facebook, Netflix, YouTube, or any other performant cloud application to date.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Cloud Computing/ Cloud Application Development, TC - $4,391.00

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

Campus Location
WSU Tech South – 3821 E. Harry, Wichita, KS 67218

Requirements

Simple Requisites

Program Requirements

Cloud Computing/Cloud Application Development,TC
Type
Completion Requirement

Cloud Computing/Cloud Application Development Requirement

Complete ALL of the following Courses:

- CLD113 - Introduction to Python - 3 Credits
- CLD121 - OOP (JavaScript) - 3 Credits
- CLD126 - Test Driven Dvlmt (JavaScript) - 3 Credits
- CLD137 - C# Programming Language - 3 Credits
- CLD138 - OOP (Python) - 3 Credits
- CLD141 - Test Driven Develop (Python) - 3 Credits

Degree Maps

Degree Map Name
Cloud Computing/Cloud Application Development, TC
Total Degree Map Credits
18
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	9	0

Requirement Select

- CLD113 - Introduction to Python

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- CLD137 - C# Programming Language

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- CLD138 - Object-Oriented Programming (Python)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	9	0

Requirement Select
- CLD121 - Object-Oriented Programming (JavaScript)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- CLD126 - Test Driven Development (JavaScript)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- CLD141 - Test Driven Development (Python)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

TC-CLIM_ECT - Climate & Energy Control (HVAC) , Cert B

Overview

Department(s)
Applied Technologies

Degree Designation
Technical Certificate

Catalog Full Description
The Climate and Energy Control (HVAC) program prepares students for careers in both residential and commercial HVAC markets by offering technical training in electricity, heating, refrigeration, sheet metal fabrication, direct digital controls (DDC), and advanced HVAC applications. The program also includes an opportunity to obtain specialized skills in building automation. Designed for students who want to build on their existing Climate and Energy Control (HVAC) degree, Certificate C focuses on advanced building automation skills, including automation controls, building management systems, and data analytics for building performance. This program equips graduates with the technical expertise and industry-recognized credentials needed to succeed in an evolving and sustainable HVAC marketplace.he WSU Tech Climate and Energy Control (HVAC) program is aligned with the National Center for Education Statistics CIP code 47.0201: Heating, Air Conditioning, Ventilation and Refrigeration Maintenance Technology/ Technician prepares individuals to apply technical knowledge and skills to repair, install, service and maintain the operating condition of heating, air conditioning, and refrigeration systems. Includes instruction in diagnostic techniques, the use of testing equipment and the principles of mechanics, electricity, and electronics as they relate to the repair of heating, air conditioning and refrigeration systems.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Climate & Energy Control (HVAC) , CERT B - $11,852.00

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.

Campus Location
WSU Tech City Center – 301 S. Grove, Wichita, KS 67211

Requirements

Simple Requisites

Program Requirements

Climate & Energy Control (HVAC), Cert B
Type
Completion Requirement

Climate & Energy Control (HVAC) Requirements

Complete ALL of the following Courses:
- ACR112 - HVAC Fundamentals - 4 Credits
- ACR113 - Electrical Fundamentals - 4 Credits
- ACR116 - Workplace Skills - 1 Credits
- ACR117 - Intro Mechanical Refrigeration - 4 Credits
- ACR118 - Electrical Fundamentals II - 3 Credits
- ACR121 - Heating System Fundamentals - 3 Credits
- ACR122 - Heating System Fundamentals II - 3 Credits
- ACR123 - Heat Loads and Duct Sizing - 2 Credits
- ACR124 - Advanced Heating Systems - 3 Credits
- ACR126 - EPA 608 - 1 Credits
- ACR127 - Heat Pumps - 4 Credits
- ACR128 - Commercial HVAC - 4 Credits
- ACR129 - Commercial HVAC Lab - 4 Credits
- ACR140 - Sheet Metal Fabrication I - 3 Credits
- SAF101 - Safety Orientation/OSHA 10 - 1 Credits

Entry Requirements
- Be 16 years of age or older
- Complete college admissions documentation

Degree Maps

Degree Map Name
Climate & Energy Control (HVAC), CERT B

Total Degree Map Credits
44
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	21	0

Requirement Select
- ACR112 - HVAC Fundamentals

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select
- ACR113 - Electrical Fundamentals

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select
- ACR116 - Workplace Skills

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- ACR117 - Intro to Mechanical Refrigeration

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select
- ACR122 - Heating System Fundamentals II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- ACR126 - EPA 608

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- ACR140 - Sheet Metal Fabrication I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- SAF101 - Safety Orientation/OSHA 10

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	23	0

Requirement Select
- ACR118 - Electrical Fundamentals II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- ACR121 - Heating System Fundamentals

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- ACR123 - Heat Loads and Duct Sizing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- ACR124 - Advanced Heating Systems

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- ACR127 - Heat Pumps

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select
- ACR128 - Commercial HVAC

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- ACR129 - Commercial HVAC Lab

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	120
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

TC-CLIM_HVC - Climate & Energy Control (HVAC), CERT C

Overview

Department(s)
Applied Technologies

Degree Designation
Technical Certificate

Catalog Full Description
The Climate and Energy Control (HVAC) program prepares students for careers in both residential and commercial HVAC markets by offering technical training in electricity, heating, refrigeration, sheet metal fabrication, direct digital controls (DDC), and advanced HVAC applications. The program also includes an opportunity to obtain specialized skills in building automation. Designed for students who want to build on their existing Climate and Energy Control (HVAC)

degree, Certificate C focuses on advanced building automation skills, including automation controls, building management systems, and data analytics for building performance. This program equips graduates with the technical expertise and industry-recognized credentials needed to succeed in an evolving and sustainable HVAC marketplace.he WSU Tech Climate and Energy Control (HVAC) program is aligned with the National Center for Education Statistics CIP code 47.0201: Heating, Air Conditioning, Ventilation and Refrigeration Maintenance Technology/ Technician prepares individuals to apply technical knowledge and skills to repair, install, service and maintain the operating condition of heating, air conditioning, and refrigeration systems. Includes instruction in diagnostic techniques, the use of testing equipment and the principles of mechanics, electricity, and electronics as they relate to the repair of heating, air conditioning and refrigeration systems.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Climate & Energy Control (HVAC), CERT C - $13,341.00

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.

Campus Location
WSU Tech City Center – 301 S. Grove, Wichita, KS 67211

Requirements

Simple Requisites

Program Requirements

Climate & Energy Control (HVAC), CERT C
Type
Completion Requirement

Climate & Energy Control (HVAC) Requirements

Complete ALL of the following Courses:

- ACR112 - HVAC Fundamentals - 4 Credits
- ACR113 - Electrical Fundamentals - 4 Credits
- ACR116 - Workplace Skills - 1 Credits
- ACR117 - Intro Mechanical Refrigeration - 4 Credits
- ACR118 - Electrical Fundamentals II - 3 Credits
- ACR119 - Adv Electrical Theory for HVAC - 2 Credits
- ACR121 - Heating System Fundamentals - 3 Credits
- ACR122 - Heating System Fundamentals II - 3 Credits
- ACR124 - Advanced Heating Systems - 3 Credits
- ACR126 - EPA 608 - 1 Credits
- ACR127 - Heat Pumps - 4 Credits
- ACR128 - Commercial HVAC - 4 Credits
- ACR129 - Commercial HVAC Lab - 4 Credits
- ACR210 - Automation Controls & Sensors - 3 Credits
- ACR220 - Building Mgmt Systems (BMS) - 3 Credits
- ACR230 - Data Analytics Building Perf - 3 Credits
- SAF101 - Safety Orientation/OSHA 10 - 1 Credits

Entry Requirements

- Be 16 years of age or older
- Complete college admissions documentation

Degree Maps

Degree Map Name
Climate & Energy Control (HVAC), CERT C
Total Degree Map Credits
50
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	21	0

Requirement Select

- ACR112 - HVAC Fundamentals

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select

- ACR113 - Electrical Fundamentals

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select

- ACR116 - Workplace Skills

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select

- ACR117 - Intro to Mechanical Refrigeration

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select

- ACR122 - Heating System Fundamentals II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- ACR126 - EPA 608

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select

- ACR210 - Automation Controls & Sensors

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- SAF101 - Safety Orientation/OSHA 10

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	24	0

Requirement Select

- ACR118 - Electrical Fundamentals II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select

- ACR121 - Heating System Fundamentals

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select

- ACR124 - Advanced Heating Systems

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- ACR127 - Heat Pumps

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select
- ACR128 - Commercial HVAC

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- ACR129 - Commercial HVAC Lab

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	120
Clinical	-
Criticality	No

Requirement Select
- ACR220 - Building Management Systems (BMS)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	5	0

Requirement Select
- ACR119 - Advanced Electrical Theory for HVAC

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- ACR230 - Data Analytics for Building Performance

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

TC-CNC_OPER - CNC Operator (Machining & Manufacturing Technology), TC

Overview

Department(s)
Manufacturing

Degree Designation
Technical Certificate

Catalog Full Description
This program gives the students the opportunity to gain skills, knowledge, and abilities in various machining processes and procedures. A significant emphasis is placed on CNC machining, including 3, 4, and 5-axis milling and CNC lathe. Classroom and laboratory instruction in safety, precision measuring, geometric dimension and tolerancing, and metrology is available. Students will enhance their competencies by gaining multi-machine setup and operations skills and robotic collaborative assist technologies, including machine tending and automatic part movement. Students will also gain advanced machining experience that includes hardened or exotic materials. Students will round out their experience by completing 15 credits of general education courses. The WSU Tech Machining Technology (Machining & Manufacturing Technology)program is aligned with the National Center for Education Statistics CIP code 48.0501: Machine Tool Technology/Machinist prepares individuals to apply technical knowledge and skills to plan, manufacture, assemble, test, and repair parts, mechanisms, machines, and structures in which materials are cast, formed, shaped, molded, heat treated, cut, twisted, pressed, fused, stamped or worked.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
CNC Operator(Macining & Manufacturing Technology),TC - $5,157.00

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.

Campus Location
WSU Tech Main Campus - National Center for Aviation Training (NCAT) - 4004 N. Webb Rd., Wichita, KS 67226

Requirements

Simple Requisites

Program Requirements

CNC Operator (Machining & Manufacturing Technology),TC
Type
Completion Requirement

CNC Operator (Machining & Manufacturing Technology), TC

Complete ALL of the following Courses:

- MMG113 - Print Reading - 3 Credits
- MMG116 - Quality Control & Inspection - 1 Credits
- MMG131 - Metallurgy - 1 Credits
- MMG135 - Machining Fundamentals - 3 Credits
- MMG155 - CNC Lathe - 3 Credits
- MMG156 - CNC Operations - 3 Credits
- MMG160 - CNC Milling I - 3 Credits
- AVC110 - Safety/OSHA 10 - 1 Credits
- PDV115 - Work Ethics - 2 Credits

Entry Requirements
Be 16 years of age or older

Degree Maps

Degree Map Name
CNC Operator (Machining & Manufacturing Technology), TC
Total Degree Map Credits
20
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	20	0

Requirement Select

- MMG113 - Print Reading

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- MMG116 - Quality Control & Inspection

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select

- MMG131 - Metallurgy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select

- MMG135 - Machining Fundamentals

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select

- MMG155 - CNC Lathe

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- MMG156 - CNC Operations

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- MMG160 - CNC Milling I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- AVC110 - Safety/OSHA 10

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- PDV115 - Work Ethics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

TC-COMP_FAB - Composite Technology Fabrication, TC

Overview

Department(s)
Aviation

Degree Designation
Technical Certificate

Catalog Full Description
This program prepares students to be successful in todays highly competitive world of aviation composite technologies. Supported by a solid background in composite theory, students will apply their knowledge in a state of the art composite laboratory at the National Center for Aviation Training. A well-rounded curriculum allows students hands-on experience in all the stages of the aircrafts life from design to production and repair. Coursework in the program includes CATIA, composite fabrication, composite repair and lean manufacturing.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Composite Technology Fabrication, TC - $6,225.00

Composite Technology Fabrication CBE, TC - $6,225.00

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.

Campus Location
WSU Tech Main Campus - National Center for Aviation Training (NCAT) - 4004 N. Webb Rd., Wichita, KS 67226

Requirements

Simple Requisites

Program Requirements

Composite Technology Fabrication, TC
Type
Completion Requirement

Composite Technology Fabrication Requirements

Complete ALL of the following Courses:
- CFT101 - Introduction To Composites - 2 Credits
- CFT106 - Composite Finish Trim - 2 Credits
- CFT107 - Composite Assembly - 2 Credits
- CFT130 - Composite Fab Methods/Applicat - 2 Credits
- AVC102 - Precision Instruments - 1 Credits
- AVC104 - Quality Control Concepts - 1 Credits
- AVC105 - Aircraft Familiarization - 1 Credits
- AVC110 - Safety/OSHA 10 - 1 Credits
- AVC112 - Blueprint Reading - 2 Credits
- AVC117 - Hand & Power Tools - 4 Credits
- AVC120 - Introduction to Sealing - 1 Credits
- AVC140 - Electrical Bonding & Grounding - 1 Credits

Entry Requirements
- Be 18 years of age or older

Degree Maps

Degree Map Name
Composite Technology Fabrication, TC
Total Degree Map Credits
20
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	18	0

Requirement Select
- CFT101 - Introduction To Composites

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- CFT106 - Composite Finish Trim

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- CFT107 - Composite Assembly

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- CFT130 - Composite Fabrication Methods/Applications

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- AVC102 - Precision Instruments

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- AVC110 - Safety/OSHA 10

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- AVC112 - Blueprint Reading

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- AVC117 - Hand & Power Tools

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- AVC120 - Introduction to Sealing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- AVC140 - Electrical Bonding & Grounding

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	2	0

Requirement Select
- AVC104 - Quality Control Concepts

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- AVC105 - Aircraft Familiarization

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Degree Map Name
Composite Technology - Fabrication CBE
Total Degree Map Credits
20
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	18	0

Requirement Select
- CFT101 - Introduction To Composites

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- CFT106 - Composite Finish Trim

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- CFT107 - Composite Assembly

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- CFT130 - Composite Fabrication Methods/Applications

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- AVC102 - Precision Instruments

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- AVC110 - Safety/OSHA 10

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- AVC112 - Blueprint Reading

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- AVC117 - Hand & Power Tools

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- AVC120 - Introduction to Sealing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- AVC140 - Electrical Bonding & Grounding

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	2	0

Requirement Select
- AVC104 - Quality Control Concepts

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- AVC105 - Aircraft Familiarization

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

TC-COMP_REP - Composite Technology Repair, TC

Overview

Department(s)
Aviation

Degree Designation
Technical Certificate

Catalog Full Description
This program prepares students to be successful in todays highly competitive world of aviation composite technologies. Supported by a solid background in composite theory, students will apply their knowledge in a state of the art composite laboratory at the National Center for Aviation Training. A well-rounded curriculum allows students hands-on experience in all the stages of the aircrafts life from design to production and repair. Coursework in the program includes CATIA, composite fabrication, composite repair and lean manufacturing.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Composite Technology Repair, TC - $13,535.00

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.

Campus Location
WSU Tech Main Campus - National Center for Aviation Training (NCAT) - 4004 N. Webb Rd., Wichita, KS 67226

Requirements

Simple Requisites

Program Requirements

Composite Technology Repair, TC
Type
Completion Requirement

Composite Technology Repair Requirements

Complete ALL of the following Courses:
- CFT101 - Introduction To Composites - 2 Credits
- CFT106 - Composite Finish Trim - 2 Credits
- CFT107 - Composite Assembly - 2 Credits
- CFT130 - Composite Fab Methods/Applicat - 2 Credits
- CFT140 - Composite Inspection - 2 Credits
- CFT141 - Disassemble & Damage Removal - 3 Credits
- CFT142 - Composite Repair - 4 Credits
- CFT143 - Complex Composite Repairs - 3 Credits
- CFT144 - Electrical Bonding Repair - 1 Credits
- AVC102 - Precision Instruments - 1 Credits
- AVC104 - Quality Control Concepts - 1 Credits
- AVC105 - Aircraft Familiarization - 1 Credits
- AVC107 - Fundamentals for Aerospace Mfg - 1 Credits
- AVC108 - Aircraft Systems & Components - 4 Credits
- AVC110 - Safety/OSHA 10 - 1 Credits
- AVC112 - Blueprint Reading - 2 Credits
- AVC117 - Hand & Power Tools - 4 Credits
- AVC120 - Introduction to Sealing - 1 Credits
- AVC125 - Bonding and Grounding - 1 Credits
- AVC140 - Electrical Bonding & Grounding - 1 Credits

General Education Requirement

Earn at least 3 credits from the following:
- Communication Elective

General Education Requirement

Earn at least 3 credits from the following:
- Humanities Elective

Entry Requirements
- Be 18 years of age or older

Degree Maps

Degree Map Name
Composite Technology Repair, TC
Total Degree Map Credits
45
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	19	0

Requirement Select
- CFT101 - Introduction To Composites

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- CFT106 - Composite Finish Trim

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- CFT107 - Composite Assembly

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- CFT130 - Composite Fabrication Methods/Applications

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- AVC102 - Precision Instruments

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- AVC110 - Safety/OSHA 10

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- AVC112 - Blueprint Reading

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- AVC117 - Hand & Power Tools

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- AVC120 - Introduction to Sealing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- AVC125 - Bonding and Grounding

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- AVC140 - Electrical Bonding & Grounding

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	10	3

Requirement Select
- AVC104 - Quality Control Concepts

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- AVC105 - Aircraft Familiarization

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- AVC107 - Fundamentals for Aerospace Manufacturing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- AVC108 - Aircraft Systems & Components

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- Communication Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	16	3

Requirement Select
- CFT140 - Composite Inspection

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- CFT141 - Disassemble & Damage Removal Techniques

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- CFT142 - Composite Repair

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	120
Clinical	-
Criticality	No

Requirement Select
- CFT143 - Complex Composite Repairs

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- CFT144 - Electrical Bonding Repair

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- Humanities Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

TC-CON_SCI - Construction Technology Level 3, TC

Overview

Department(s)
Applied Technologies

Degree Designation
Technical Certificate

Catalog Full Description
The Construction Technology program prepares students in the basic skills necessary for all occupations in construction. Students begin their studies in nine modules, which include; safety, math materials, hand and power tools, construction drawings, basic rigging, communication and employability skills. Student then advance to courses with provide hands- on application of technical knowledge and skills. In these courses students apply all aspects of carpentry and will receive instruction in technical mathematics, framing construction materials and selection; job estimating; blueprint reading, foundations and roughing -in, finish carpentry techniques and applicable codes and standards. The WSU Tech Construction Technology program is aligned with the National Center for Education Statistics CIP code 46.0201: Carpentry/Carpenter prepares individuals to apply technical knowledge and skills to lay out, cut, fabricate, erect, install, and repair wooden structures and fixtures, using hand and power tools. Includes instruction in technical mathematics, framing, construction materials and selection, job estimating, blueprint reading, foundations and roughing-in, finish carpentry techniques, and applicable codes and standards.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Construction Technology Level 3, $11,765.00

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.

Campus Location
WSU Tech City Center – 301 S. Grove, Wichita, KS 67211, CTEC + WSU Tech – 1301 E. 27th Terrace, Pittsburg, KS 66762

Requirements

Simple Requisites

Program Requirements

Construction Technology- Masonry Level 3, TC
Type
Completion Requirement

Construction Technology- Masonry Requirements

Complete ALL of the following Courses:

- CCP100 - Introductory Craft Skills - 3 Credits
- CCP108 - Construction Basics - 2 Credits
- CCP112 - Carpentry I - 3 Credits
- CCP122 - Carpentry II - 4 Credits
- CCP134 - Intro to Concrete Construction - 3 Credits
- CCP123 - Masonry I - 4 Credits
- CCP133 - Masonry II - 4 Credits
- CCP143 - Masonry Installation Technique - 6 Credits
- CCP159 - Masonry III - 4 Credits
- CCP169 - Masonry IV - 5 Credits
- CCP179 - Adv Masonry Laying Techniques - 6 Credits
- SAF101 - Safety Orientation/OSHA 10 - 1 Credits

Construction Technology, TC
Type
Completion Requirement

Construction Technology Level 3 Requirements

Complete ALL of the following Courses:

- CCP100 - Introductory Craft Skills - 3 Credits
- CCP108 - Construction Basics - 2 Credits
- CCP112 - Carpentry I - 3 Credits
- CCP122 - Carpentry II - 4 Credits
- CCP124 - Exterior Envelope - 3 Credits
- CCP128 - Interior Systems - 2 Credits
- CCP134 - Intro to Concrete Construction - 3 Credits
- CCP138 - Advanced Framing - 3 Credits
- CCP144 - Advanced Finish and Trim - 3 Credits
- CCP144 - Advanced Finish and Trim - 3 Credits
- CCP148 - Vertical & Horizontal Formwork - 3 Credits
- CCP154 - Finishing Concrete - 2 Credits
- CCP155 - FEMA Doors & Hardware - 1 Credits
- CCP168 - Equipment Operation - 3 Credits
- CCP172 - Fundamentals Crew Leadership - 2 Credits
- CCP180 - Cabinet Installation - 1 Credits
- CCP185 - Carpentry Internship I - 3 Credits
- CCP187 - Carpentry Internship II - 3 Credits

Entry Requirements

- Be 16 years of age or older
- Show documentation of high school graduation or satisfaction of high school equivalency prior to graduation from the program
- Meet entrance exam requirements for general education requirements
- Complete college admissions documentation

Degree Maps

Degree Map Name
Construction Technology Level 3
Total Degree Map Credits
45
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16	0

Requirement Select

- CCP100 - Introductory Craft Skills

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- CCP108 - Construction Basics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select

- CCP112 - Carpentry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- CCP122 - Carpentry II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select
- CCP124 - Exterior Envelope

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- SAF101 - Safety Orientation/OSHA 10

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select
- CCP128 - Interior Systems

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- CCP134 - Introduction to Concrete Construction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- CCP138 - Advanced Framing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- CCP144 - Advanced Finish and Trim

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- CCP148 - Vertical and Horizontal Formwork

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- CCP155 - FEMA Doors & Hardware

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	8	0

Requirement Select

- CCP154 - Finishing Concrete

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- CCP168 - Equipment Operation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- CCP172 - Fundamentals of Crew Leadership

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select

- CCP180 - Cabinet Installation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	6	0

Requirement Select

- CCP185 - Carpentry Internship I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	135
Clinical	-
Criticality	No

Requirement Select

- CCP187 - Carpentry Internship II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	135
Clinical	-
Criticality	No

Total General Education Credits
0
Total Major Credits
0
Total Minor Credits
0
Total Elective Credits
0

Degree Map Name
Construction Technology Level 3 (Masonry)
Total Degree Map Credits
45
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	13	0

Requirement Select

- CCP100 - Introductory Craft Skills

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- CCP108 - Construction Basics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select

- CCP112 - Carpentry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- CCP122 - Carpentry II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select

- SAF101 - Safety Orientation/OSHA 10

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	13	0

Requirement Select

- CCP123 - Masonry I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select

- CCP134 - Introduction to Concrete Construction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select

- CCP143 - Masonry Installation Techniques

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	165
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	8	0

Requirement Select

- CCP133 - Masonry II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select

- CCP159 - Masonry III

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	11	0

Requirement Select

- CCP169 - Masonry IV

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	135
Clinical	-
Criticality	No

Requirement Select

- CCP179 - Advanced Masonry Laying Techniques

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	165
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

TC-CRM_JUST - Criminal Justice, TC

Overview

Department(s)
Professional Studies

Degree Designation
Technical Certificate

Catalog Full Description
This program is uniquely designed to prepare students for a successful career in law enforcement with a special focus on urban policing, diversity and criminal justice in the 21st century. The criminal justice field affords a multitude of career possibilities with graduates having the capability to serve as law enforcement officers, probation and parole officers, correctional officers, and other specialties at all levels of government. The WSU Tech Criminal Justice program is aligned with the National Center for Education Statistics CIP code 43.0107: Criminal Justice/ Police Science prepares individuals to perform the duties of police and public security officers, including patrol and investigative activities, traffic control, crowd control and public relations, witness interviewing, evidence collection and management, basic crime prevention methods, weapon and equipment operation and maintenance, report preparation and other routine law enforcement responsibilities.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Criminal Justice, TC - $7,138.00

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.

Campus Location
WSU Tech South – 3821 E. Harry, Wichita, KS 67218

Requirements

Simple Requisites

Program Requirements

Criminal Justice, TC
Type
Completion Requirement

Criminal Justice Technical Requirements

Complete ALL of the following Courses:

- CRJ101 - Intro to Criminal Justice - 3 Credits
- CRJ105 - Criminal Investigation - 3 Credits
- CRJ110 - Criminal Law - 3 Credits
- CRJ115 - Agency Administration - 3 Credits
- CRJ120 - Juvenile Delinquency & Justice - 3 Credits
- CRJ125 - Law Enforcement Ops & Proc - 3 Credits
- CRJ130 - Criminal Procedures - 3 Credits
- CRJ135 - Criminal Just Interview & Rpt - 3 Credits
- CRJ140 - Prof Responsibility Crim Just - 3 Credits
- CRJ145 - Corrections - 3 Credits
- CRJ155 - Policing Diverse Cultures - 3 Credits
- CRJ160 - Internship in Criminal Justice - 3 Credits
- CPR001 - CPR For Healthcare Providers - 1 Credits
- ENG101 - Composition I - 3 Credits

General Education Requirement

Complete ANY of the following Course Sets:

- Communication Elective

General Education Requirement

Complete ANY of the following Course Sets:

- Humanities Elective

Entry Requirements

Complete the Accuplacer entry exams with minimum scores of 244 in Reading and Writing and Accuplacer QAS of 230 or higher. Or students can complete ACT entry exam with a minimum score of 18+ in Reading and English. ACT score of 19+ is required in math.

Degree Maps

Degree Map Name
Criminal Justice, TC
Total Degree Map Credits
46
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	12	3

Requirement Select

- CRJ101 - Introduction to Criminal Justice

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- CRJ110 - Criminal Law

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- CRJ140 - Professional Responsibility in Criminal Justice

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- Humanities Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	12	0

Requirement Select

- CRJ105 - Criminal Investigation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- CRJ130 - Criminal Procedures

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- CRJ145 - Corrections

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- ENG101 - Composition I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	10	0

Requirement Select
- CRJ115 - Agency Administration

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- CRJ120 - Juvenile Delinquency and Justice

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- CRJ125 - Law Enforcement Operations and Procedures

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- CPR001 - CPR For Healthcare Providers

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	12	3

Requirement Select
- CRJ135 - Criminal Justice Interview and Report Writing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- CRJ155 - Policing Diverse Cultures

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- CRJ160 - Internship in Criminal Justice

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- Communication Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

TC-CUL_ARTS - Culinary Arts, TC

Overview

Department(s)
Hospitality & Culinary Arts

Degree Designation
Technical Certificate

Catalog Full Description
The Culinary Arts program offers a comprehensive degree intended to provide students the knowledge and practical skills for success in the Culinary Industry. In the first half of the program, students will complete a core set of courses designed to provide a solid foundation of industry skills. Course topics include sanitation and safety, fundamental skills in culinary basics including rudimentary cooking, baking and knife skills as well as culinary nutrition and modern banquet cookery. In the second half of the program, the student builds upon this foundation with intermediate and advanced culinary courses. These courses include knowledge acquisition and skill development for innovation and sustainability in the culinary industry as well as a broad selection of elective courses for students to gain comprehensive instruction and experience in preparing, tasting, serving and evaluating traditional and regional dishes of the world. Course work also includes topics in Advanced Baking including Chocolate and Confectionary Techniques, Breads and Rolls, Cakes and Desserts. Students enrolled in the program will participate in a Bistro Practicum course which allows them to apply classroom and lab experiences in the real world.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Culinary Arts, TC - $7,170.00

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.

Campus Location
WSU Tech National Institute for Culinary and Hospitality Education (NICHE) – 124 S. Broadway, Wichita, KS 67202

Requirements

Simple Requisites

Program Requirements

Culinary Arts, TC
Type
Completion Requirement

Culinary Arts Requirements

Complete ALL of the following Courses:
- CUL105 - Culinary Fundamentals - 3 Credits
- CUL115 - Culinary Nutrition - 3 Credits
- CUL120 - Modern Banquet Cookery - 3 Credits
- CUL125 - Baking & Pastry Skill Dvlpmnt - 3 Credits
- CUL133 - Bistro Practicum I - 3 Credits
- HEM105 - Sanitation and Safety - 1 Credits
- HEM115 - Intro to Hospitality Industry - 3 Credits
- SPH111 - Interpersonal Communication - 3 Credits

General Education Requirement

Complete ALL of the following Course Sets:
- Math Elective

Entry Requirements
- Complete entrance exam for general education courses

Degree Maps

Degree Map Name
Culinary Arts, TC
Total Degree Map Credits
25
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16	3

Requirement Select
- CUL105 - Culinary Fundamentals

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- CUL115 - Culinary Nutrition

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- CUL120 - Modern Banquet Cookery

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- HEM105 - Sanitation and Safety

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- SPH111 - Interpersonal Communication

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- Math Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	9	0

Requirement Select
- CUL125 - Baking & Pastry Skill Development

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- CUL133 - Bistro Practicum I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select
- HEM115 - Introduction to the Hospitality Industry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

TC-DES_ARCH - Architectural Design Technology, TC

Overview

Department(s)
Manufacturing

Degree Designation
Technical Certificate

Catalog Full Description
Architectural Design Technology is an interdisciplinary curriculum which prepares graduates to for careers in commercial and/or residential architectural fields. In a state of the art computer lab at the National Center for Aviation Training (NCAT) students will solve the real world architectural problems they will encounter in the field. Students will complete a core set of courses which include hands on application in the latest computer aided drafting software as well as CATIA. Additional course topics include Machine Drafting and Design and Materials and Processes. Students will round off their educational experience by completing 15 credits of general education courses in five areas of study including mathematics, humanities, social sciences, English and communications

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Architectural Design Technology, TC - $10,638.00

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.

Campus Location
WSU Tech Main Campus - National Center for Aviation Training (NCAT) - 4004 N. Webb Rd., Wichita, KS 67226

Requirements

Simple Requisites

Program Requirements

Architectural Design Technology, TC
Type
Completion Requirement

Architecturl Design Technology Requirement

Complete ALL of the following Courses:

- MCD101 - Introduction to CAD I - 3 Credits
- MCD102 - Introduction to CAD II - 2 Credits
- MCD104 - Blueprint Reading for Drafting - 2 Credits
- MCD106 - Precision Measuring - 2 Credits
- MCD112 - Industrial Mat & Processes - 2 Credits
- MCD114 - Arch Drafting & Design - 3 Credits
- MCD115 - Machine Drafting & Design - 3 Credits
- MCD121 - Descriptive Geometry - 3 Credits
- MCD124 - Advanced AutoCAD - 4 Credits
- MCD132 - Basic Chief Arch/Arch Desktop - 3 Credits
- MCD164 - Residential Dsgn Autodesk Rev - 4 Credits
- PDV115 - Work Ethics - 2 Credits

General Education Requirement

Complete ANY of the following Course Sets:

- Communication Elective

General Education Requirement

Complete ANY of the following Course Sets:

- Humanities Elective

General Education Requirement

Complete ANY of the following Course Sets:

- Math Elective

Entry Requirements

- Be 16 years of age or older
- Completed admissions documents

Degree Maps

Degree Map Name
Architectural Design Technology, TC
Total Degree Map Credits
45
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	12	0

Requirement Select

- MCD101 - Introduction to CAD I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select

- MCD102 - Introduction to CAD II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- MCD104 - Blueprint Reading for Drafting

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- MCD106 - Precision Measuring

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- MCD121 - Descriptive Geometry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	12	3

Requirement Select
- MCD112 - Industrial Materials & Processes

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- MCD115 - Machine Drafting & Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- MCD124 - Advanced AutoCAD

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select
- Humanities Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	12	3

Requirement Select
- MCD114 - Architectural Drafting & Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- MCD164 - Residential Design Using Autodesk Revit

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select
- PDV115 - Work Ethics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- Communication Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	9	3

Requirement Select
- MCD132 - Basic Chief Architect/Architectural Desktop

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- MCD134 - Advanced Chief Architect/Architectural Desktop

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- Math Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

TC-DIG_MRKT - Digital Marketing, TC

Overview

Department(s)
Professional Studies

Degree Designation
Technical Certificate

Catalog Full Description
The Digital Marketing Program provides graduates with the skills necessary to succeed in the specialized realm of digital commerce. The program coursework combines traditional marketing skills with the specialized technical skills required to develop first-class digital marketing content. In scenario-based coursework students will create and apply digital marketing strategies that reflect real-world situations. Topics will include digital strategy, web development, and analytics as well as digital marketing, multimedia, SEO, and SEM techniques. All students will graduate with a professional portfolio.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Digital Marketing, TC - $8,902.00

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.

Campus Location
WSU Tech South – 3821 E. Harry, Wichita, KS 67218

Requirements

Simple Requisites

Program Requirements

Digital Marketing, TC
Type
Completion Requirement

Digital Marketing Requirements

Complete ALL of the following Courses:

- DMK110 - Introduction to Media Arts - 3 Credits
- DMK120 - Basic Digital Editing - 3 Credits
- DMK125 - Community Building and Mgmt - 3 Credits
- DMK135 - Social Media Marketing & Mgmt - 3 Credits
- DMK140 - Intro to Audio/Visual Prod - 3 Credits
- DMK150 - Search Optimization & Market - 3 Credits
- DMK155 - Photography Fundamentals - 2 Credits
- DMK160 - Introduction to Analytics - 3 Credits
- DMK163 - Intro to Digital Advertising - 3 Credits
- CLD122 - Intro to Web Development - 3 Credits
- CLD147 - Website Production & Mgmt - 3 Credits
- BUS140 - Principles of Marketing - 3 Credits
- ENG101 - Composition I - 3 Credits
- ENG120 - Composition II - 3 Credits

Entry Requirements

- Completion of application and related procedures,
- Meet entrance exams assessments: Accuplacer Reading & Accuplacer Writing at 237 and ALEKS PPL math at 30.

Degree Maps

Degree Map Name
Digital Marketing, TC
Total Degree Map Credits
41
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	9	0

Requirement Select

- DMK110 - Introduction to Media Arts

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- DMK120 - Basic Digital Editing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- ENG101 - Composition I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	12	0

Requirement Select

- DMK125 - Community Building and Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select

- DMK140 - Introduction to Audio/Visual Production

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select

- BUS140 - Principles of Marketing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- ENG120 - Composition II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	12	0

Requirement Select

- DMK135 - Social Media Marketing and Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select

- DMK150 - Search Engine Optimization & Marketing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select

- DMK163 - Introduction to Digital Advertising

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select

- CLD122 - Introduction to Web Development

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	8	0

Requirement Select

- DMK155 - Photography Fundamentals

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- DMK160 - Introduction to Analytics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- CLD147 - Website Production & Management (Word Press)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

TC-ELEC_TEC - Electrical Technology, TC

Overview

Department(s)
Applied Technologies

Degree Designation
Technical Certificate

Catalog Full Description
The Electrical Technology program offers a comprehensive curriculum designed to prepare graduates to take the Journeyman Electrician licensure exam. This program prepares students to apply technical knowledge and skills in the installation, operation, maintenance, and repair of electric apparatus and systems. Students will gain a solid foundation in electronics, electrical systems, wiring methods, power transmission, safety practices, and applicable codes and standards. The program encompasses a wide range of courses that cover essential topics in the field of electrical technology. Students will develop a strong understanding of AC/DC circuits, print reading, residential and commercial wiring, motor controls, low voltage wiring, programmable logic controllers, and fire alarm, emergency, and health care systems. They will also explore the emerging fields of solar and wind power generation. The WSU Tech Electrical Technology program is aligned with the National Center for Education Statistics CIP code 46.0302: Electrician prepares individuals to apply technical knowledge and skills to install, operate, maintain, and repair electric apparatus and systems such as residential, commercial, and industrial electric-power wiring; and DC and AC motors, controls, and electrical distribution panels. Includes instruction in the principles of electronics and electrical systems, wiring, power transmission, safety, industrial and household appliances, job estimation, electrical testing and inspection, and applicable codes and standards.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Electrical Technology, TC - $9,785.00

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.

Campus Location
WSU Tech City Center – 301 S. Grove, Wichita, KS 67211

Requirements

Simple Requisites

Program Requirements

Electrical Technology, TC
Type
Completion Requirement

Electrical Technology Requirements

Complete ALL of the following Courses:
- ELE110 - Print Reading - 2 Credits
- ELE120 - AC/DC Circuits - 4 Credits
- ELE130 - Commercial Wiring I - 4 Credits
- ELE132 - Commercial Wiring Lab - 4 Credits
- ELE135 - Low Voltage Wiring - 2 Credits
- ELE140 - Motor Controls - 2 Credits
- ELE150 - National Electrical Code I - 4 Credits
- ELE160 - National Electrical Code II - 4 Credits
- ELE180 - Residential Wiring I - 4 Credits
- ELE182 - Residential Wiring Lab - 4 Credits
- SAF135 - Safety/OSHA 30 - 3 Credits

Entry Requirements
- Be 16 years of age or older
- Complete college admissions documentation

Degree Maps

Degree Map Name
Electrical Technology, TC
Total Degree Map Credits
37
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	21	0

Requirement Select
- ELE110 - Print Reading

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- ELE120 - AC/DC Circuits

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- ELE150 - National Electrical Code I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- ELE180 - Residential Wiring I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- ELE182 - Residential Wiring Lab

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	120
Clinical	-
Criticality	No

Requirement Select
- SAF135 - Safety/OSHA 30

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	16	0

Requirement Select
- ELE130 - Commercial Wiring I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- ELE132 - Commercial Wiring Lab

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	120
Clinical	-
Criticality	No

Requirement Select
- ELE135 - Low Voltage Wiring

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- ELE140 - Motor Controls

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- ELE160 - National Electrical Code II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Total General Education Credits
0
Total Major Credits
0
Total Minor Credits
0
Total Elective Credits
0

TC-EM_MEDSRV - Emergency Medical Services, TC

Overview

Department(s)
Health Sciences

Degree Designation
Technical Certificate

Catalog Full Description
The goal of the Emergency Medical Services- EMT program is to produce competent, entry level Emergency Medical Technicians to serve in career positions in the community. This program is designed to equip students with the highest level of pre-hospital care. The program consists of four components of instruction: didactic instruction, skills laboratory, clinical experience and field internship. Students are prepared to care for the sick and injured in emergency medical settings. The program prepares students to develop quick reactions and competent care practices to respond to emergency calls, perform medical services and transport patients to medical facilities. This program establishes a student's EMT-Basic certification.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Emergency Medical Services, TC - $5,378.00

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.

Campus Location
WSU Tech South – 3821 E. Harry, Wichita, KS 67218

Requirements

Simple Requisites

Program Requirements

Emergency Medical Services,TC
Type
Completion Requirement

Emergency Medical Services Requirements

Complete ALL of the following Courses:
- EMS115 - Tactical Medicine - 3 Credits
- EMS120 - Work Ethic - 2 Credits
- CPR001 - CPR For Healthcare Providers - 1 Credits

Emergency Medical Services Elective

Complete ANY of the following Course Sets:
- Emergency Medical Technician

Entry Requirements
Documentation of high school graduation or satisfaction of high school equivalency certificate requirements, or students currently enrolled in high school or GED program and have attained junior status and the student must be at least 17 years of age by the end of the semester, Documented negative PPD TB skin test within the last year or negative chest X - Ray within the last three years, Completion of application and related procedures

Degree Maps

Degree Map Name
Emergency Medical Services, TC
Total Degree Map Credits
18
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	18	12

Requirement Select
- EMS115 - Tactical Medicine

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- EMS120 - Work Ethic

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- CPR001 - CPR For Healthcare Providers

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- Emergency Medical Technician

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	12
Progress Credits	12
Contact Hours	12
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

TC-HSP_EVNT - Hospitality and Events Management, TC

Overview

Department(s)
Hospitality & Culinary Arts

Degree Designation
Technical Certificate

Catalog Full Description
The Hospitality and Events Management program offers a multi-disciplinary degree intended to provide students with the knowledge and practical skills for success in the Hospitality Industry. In the first half of the programs, students will complete a core set of courses designed to provide a solid foundation of industry skills. The program offers two distinct tracks including Food and Beverage Management and Food Business Management. Course work varies depending on the selected track but includes topics such as Wine Fundamentals, Culinary Fundamentals, Introduction to Entrepreneurship, Event Catering Strategies. Students in each track will participate in an internship course which allows them to apply classroom and lab experiences in the real world.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Food Business Management, TC $12,817.00

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.

Campus Location
WSU Tech National Institute for Culinary and Hospitality Education (NICHE) – 124 S. Broadway, Wichita, KS 67202

Requirements

Simple Requisites

Program Requirements

Food Business Management, TC
Type
Completion Requirement

Food Business Management Requirements

Complete ALL of the following Courses:
- HEM105 - Sanitation and Safety - 1 Credits
- HEM110 - Hospitality Math - 3 Credits
- HEM115 - Intro to Hospitality Industry - 3 Credits
- HEM140 - Hospitality Financial Mgmt - 3 Credits
- HEM143 - Intro to Food Business Mgmt - 5 Credits
- HEM233 - Restaurant Incubator - 3 Credits
- HEM235 - Hospitality Management Intern - 3 Credits
- BUS104 - Introduction to Business - 3 Credits
- BUS140 - Principles of Marketing - 3 Credits
- CUL105 - Culinary Fundamentals - 3 Credits
- CUL115 - Culinary Nutrition - 3 Credits
- CUL120 - Modern Banquet Cookery - 3 Credits
- CUL125 - Baking & Pastry Skill Dvlpmnt - 3 Credits
- CUL133 - Bistro Practicum I - 3 Credits
- ENT110 - Intro to Entrepreneurship - 3 Credits

Entry Requirements
Be 16 years of age or older, Documentation of high school graduation or satisfaction of high school equivalency certificate requirements, or students currently enrolled in high school or GED program and have attained junior status, Students enrolled in the Food and Beverage track of the Hospitality and Events Management program must be 21 years of age before enrolling in the 200 level courses, Completion of application and related procedures

Degree Maps

Degree Map Name
Food Business Management, TC
Total Degree Map Credits
45
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	10	0

Requirement Select
- HEM105 - Sanitation and Safety

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- CUL105 - Culinary Fundamentals

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- CUL115 - Culinary Nutrition

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- CUL120 - Modern Banquet Cookery

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select
- HEM110 - Hospitality Math

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- HEM115 - Introduction to the Hospitality Industry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- BUS104 - Introduction to Business

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- CUL125 - Baking & Pastry Skill Development

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- CUL133 - Bistro Practicum I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	6	0

Requirement Select
- HEM140 - Hospitality Financial Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- HEM235 - Hospitality Management Internship

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	135
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	8	0

Requirement Select
- BUS140 - Principles of Marketing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- HEM143 - Introduction to Food Business Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	6	0

Requirement Select
- HEM233 - Restaurant Incubator

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select
- ENT110 - Introduction to Entrepreneurship

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

TC-IND_AUTO - Industrial Machine/ Maintenance Technology (Cert C), TC

Overview

Department(s)
Manufacturing

Degree Designation
Technical Certificate

Catalog Full Description
Industrial Machine/Maintenance Technology program provides the solid foundational knowledge and skills necessary to succeed in the mechanical and automated manufacturing environment. Graduates will learn to analyze, troubleshoot, and align mechanical and automated industrial machinery. Program

course work includes electronics, industrial wiring, motor controls, programmable logic controls, instrumentation, industrial fluid power, manufacturing automation concepts, and robotics. Students will round off their educational experience by completing general education courses in five areas of study including mathematics, humanities, and social sciences, English, and communications. The WSU Tech Industrial Machine/ Maintenance Technology program is aligned with the National Center for Education Statistics CIP code 47.0303: Industrial Mechanics and Maintenance Technology/Technician prepares individuals to apply technical knowledge and skills to repair and maintain industrial machinery and equipment such as cranes, pumps, engines and motors, pneumatic tools, conveyor systems, production machinery, marine deck machinery, and steam propulsion, refinery, and pipeline-distribution systems.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Industrial Machine/Maintenance Technology (Cert C), TC - $12,700.00

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.

Campus Location
WSU Tech City Center – 301 S. Grove, Wichita, KS 67211

Requirements

Simple Requisites

Program Requirements

Industrial Machine/Maintenance Technology (Cert C), TC
Type
Completion Requirement

Industrial Machine/Maintenance Technology (CERT C) Requirements

Complete ALL of the following Courses:

- IND109 - Programmable Logic Controls - 4 Credits
- IND111 - Foundations of Manufacturing - 2 Credits
- IND115 - Industrial Safety - 1 Credits
- IND116 - Advanced Motor Controls - 3 Credits
- IND117 - Variable Speed Motor Control - 3 Credits
- IND121 - Mechanical Systems Reliability - 3 Credits
- IND122 - AC/DC Circuits - 4 Credits
- IND130 - Mechanical Systems - 3 Credits
- IND131 - Industrial Prog Logic Controls - 3 Credits
- IND132 - Industrial Process Control - 3 Credits
- IND137 - Industrial Schematics - 2 Credits
- IND143 - Electrical System Troubleshoot - 3 Credits
- IND147 - Fluid Power I - 3 Credits
- IND150 - Manufacturing Equipment & Tool - 2 Credits
- IND152 - Predictive Maintenance - 2 Credits
- IND157 - Preventative Maintenance - 2 Credits
- AVC110 - Safety/OSHA 10 - 1 Credits
- PDV115 - Work Ethics - 2 Credits

Industrial Machine/Maintenance Technology (CERT C) Requirements

Earn at least 3 credits from the following:

- IND139 - CNC Operation for Maintenance - 3 Credits
- IND160 - Fluid Power II - 3 Credits
- IND165 - Industrial Process Control II - 3 Credits
- IND170 - CNC Installation - 2 Credits
- IND175 - Advanced CNC Maintenance App - 4 Credits
- ROB100 - Introduction to Robotics - 3 Credits

General Education Requirement

Complete ANY of the following Course Sets:

- Math Elective

Entry Requirements
Be 16 years of age or older

Degree Maps

Degree Map Name
Industrial Machine /Maintenance Technology, Cert C
Total Degree Map Credits
52
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	18	3

Requirement Select

- IND111 - Foundations of Manufacturing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- IND115 - Industrial Safety

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- IND117 - Variable Speed Motor Control

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- IND122 - AC/DC Circuits

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select
- IND150 - Manufacturing Equipment and Tools

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- AVC110 - Safety/OSHA 10

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- PDV115 - Work Ethics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- Math Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select
- IND109 - Programmable Logic Controls

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select
- IND116 - Advanced Motor Controls

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- IND131 - Industrial Programmable Logic Controls (PLC)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select

- IND137 - Industrial Schematics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select

- IND143 - Electrical System Troubleshooting

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	6	3

Requirement Select

- IND147 - Fluid Power I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select

- Industrial Machine/Maintenance Technology Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	13	0

Requirement Select

- IND121 - Mechanical Systems Reliability

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- IND130 - Mechanical Systems

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select

- IND132 - Industrial Process Control

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- IND152 - Predictive Maintenance

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- IND157 - Preventative Maintenance

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Total General Education Credits
0

Total Major Credits
0

Total Minor Credits
0

Total Elective Credits
0

TC-IND_IMTA - Industrial Machine/ Maintenance Technology (CERT A), TC

Overview

Department(s)
Manufacturing

Degree Designation
Technical Certificate

Catalog Full Description
Industrial Machine/Maintenance Technology program provides the solid foundational knowledge and skills necessary to succeed in the mechanical and automated manufacturing environment. Graduates will learn to analyze, troubleshoot, and align mechanical and automated industrial machinery. Program course work includes electronics, industrial wiring, motor controls, programmable logic controls, instrumentation, industrial fluid power, manufacturing automation concepts, and robotics. Students will round off their educational experience by completing general education courses in five areas of study including mathematics, humanities, and social sciences, English, and communications. The WSU Tech Industrial Machine/ Maintenance Technology program is aligned with the National Center for Education Statistics CIP code 47.0303: Industrial Mechanics and Maintenance Technology/Technician prepares individuals to apply technical knowledge and skills to repair and maintain industrial machinery and equipment such as cranes, pumps, engines and motors, pneumatic tools, conveyor systems, production machinery, marine deck machinery, and steam propulsion, refinery, and pipeline-distribution systems.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
IndIndustrial Machine/Maintenance Technology, (CERT A), TC- $6720.00

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.

Campus Location
WSU Tech City Center – 301 S. Grove, Wichita, KS 67211

Requirements

Simple Requisites

Program Requirements

Industrial Machine/Maintenance Technology, (CERT A), TC
Type
Completion Requirement

Industrial Machine/Maintenance Technology (CERT A) Requirement

Complete ALL of the following Courses:
- IND109 - Programmable Logic Controls - 4 Credits
- IND115 - Industrial Safety - 1 Credits
- IND121 - Mechanical Systems Reliability - 3 Credits
- IND122 - AC/DC Circuits - 4 Credits
- IND130 - Mechanical Systems - 3 Credits
- IND147 - Fluid Power I - 3 Credits
- IND150 - Manufacturing Equipment & Tool - 2 Credits
- AVC110 - Safety/OSHA 10 - 1 Credits
- PDV115 - Work Ethics - 2 Credits

Industrial Machine/Maintenance Technology Elective

Earn at least 3 credits from the following:
- IND111 - Foundations of Manufacturing - 2 Credits
- IND139 - CNC Operation for Maintenance - 3 Credits
- IND160 - Fluid Power II - 3 Credits
- IND165 - Industrial Process Control II - 3 Credits
- IND170 - CNC Installation - 2 Credits
- IND175 - Advanced CNC Maintenance App - 4 Credits
- ROB100 - Introduction to Robotics - 3 Credits

General Education Requirement

Complete ANY of the following Course Sets:
- Math Elective

Entry Requirements
Be 16 years of age or older

Degree Maps

Degree Map Name
Industrial Machine/Maintenance Technology, (CERT A), TC
Total Degree Map Credits
29
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	26	3

Requirement Select
- IND109 - Programmable Logic Controls

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select
- IND115 - Industrial Safety

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- IND121 - Mechanical Systems Reliability

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- IND122 - AC/DC Circuits

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select
- IND130 - Mechanical Systems

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- IND147 - Fluid Power I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- IND150 - Manufacturing Equipment and Tools

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- AVC110 - Safety/OSHA 10

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- PDV115 - Work Ethics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- Math Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	3	3

Requirement Select
- Industrial Machine Maintenance Technology (CERT A) Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

TC-IND_IMTB - Industrial Machine/ Maintenance Technology (CERT B), TC

Overview

Department(s)
Manufacturing

Degree Designation
Technical Certificate

Catalog Full Description
Industrial Machine/Maintenance Technology program provides the solid foundational knowledge and skills necessary to succeed in the mechanical and automated manufacturing environment. Graduates will learn to analyze, troubleshoot, and align mechanical and automated industrial machinery. Program course work includes electronics, industrial wiring, motor controls, programmable logic controls, instrumentation, industrial fluid power, manufacturing automation concepts, and robotics. Students will round off their educational experience by completing general education courses in five areas of study including mathematics, humanities, and social sciences, English, and communications. The WSU Tech Industrial Machine/ Maintenance Technology program is aligned with the National Center for Education Statistics CIP code 47.0303: Industrial Mechanics and Maintenance Technology/Technician prepares individuals to apply technical knowledge and skills to repair and maintain industrial machinery and equipment such as cranes, pumps, engines and motors, pneumatic tools, conveyor systems, production machinery, marine deck machinery, and steam propulsion, refinery, and pipeline-distribution systems.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Industrial Machine/Maintenance Technology (CERT B), TC - $10,880.00

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.

Campus Location
WSU Tech City Center – 301 S. Grove, Wichita, KS 67211

Requirements

Simple Requisites

Program Requirements

Industrial Machine Maintenance Technology (CERT B), TC
Type
Completion Requirement

Industrial Maching/Maintenance Technology (CERT B) Requirement

Complete ALL of the following Courses:
- IND109 - Programmable Logic Controls - 4 Credits
- IND111 - Foundations of Manufacturing - 2 Credits
- IND115 - Industrial Safety - 1 Credits
- IND116 - Advanced Motor Controls - 3 Credits
- IND117 - Variable Speed Motor Control - 3 Credits
- IND121 - Mechanical Systems Reliability - 3 Credits
- IND122 - AC/DC Circuits - 4 Credits
- IND130 - Mechanical Systems - 3 Credits
- IND131 - Industrial Prog Logic Controls - 3 Credits
- IND137 - Industrial Schematics - 2 Credits
- IND143 - Electrical System Troubleshoot - 3 Credits
- IND147 - Fluid Power I - 3 Credits
- IND150 - Manufacturing Equipment & Tool - 2 Credits
- AVC110 - Safety/OSHA 10 - 1 Credits
- PDV115 - Work Ethics - 2 Credits

Industrial Machine/Maintenance Technology (Cert B) Elective

Earn at least 3 credits from the following:
- IND139 - CNC Operation for Maintenance - 3 Credits
- IND160 - Fluid Power II - 3 Credits
- IND165 - Industrial Process Control II - 3 Credits
- IND170 - CNC Installation - 2 Credits
- IND175 - Advanced CNC Maintenance App - 4 Credits
- ROB100 - Introduction to Robotics - 3 Credits

General Education Requirement

Complete ANY of the following Course Sets:

- Math Elective

Entry Requirements
Be 16 years of age or older

Degree Maps

Degree Map Name
Industrial Machine Maintenance Technology (CERTB), TC
Total Degree Map Credits
45
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	26	3

Requirement Select

- IND109 - Programmable Logic Controls

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select

- IND115 - Industrial Safety

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select

- IND121 - Mechanical Systems Reliability

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- IND122 - AC/DC Circuits

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select

- IND130 - Mechanical Systems

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select

- IND147 - Fluid Power I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select

- IND150 - Manufacturing Equipment and Tools

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- AVC110 - Safety/OSHA 10

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- PDV115 - Work Ethics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- Math Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	19	3

Requirement Select
- IND111 - Foundations of Manufacturing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- IND116 - Advanced Motor Controls

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- IND117 - Variable Speed Motor Control

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- IND131 - Industrial Programmable Logic Controls (PLC)

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select
- IND137 - Industrial Schematics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select

- IND143 - Electrical System Troubleshooting

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select

- Industrial Machine/Maintenance Technology Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

TC-INF_TECH - Computer Support Specialist (Cert B), TC

Overview

Department(s)
Information Technology

Degree Designation
Technical Certificate

Catalog Full Description
The Computer Support Specialist technical certificate program prepares individuals to provide technical assistance, support, and advice to computer users to troubleshoot software, hardware and networking problems. The program includes instruction in computer concepts, information systems, networking, security, operating systems, the Internet, software applications, help desk concepts, effective written and verbal communication skills, team management, project management, customer service and problem solving skills. Students are prepared to enter the workforce as a Computer User Support Specialist, Help Desk Technician, Technical Support Specialist or IT Support Representative. The WSU Tech Computer Support Specialist program is aligned with the National Center for Education Statistics CIP code 11.1006: Computer Support Specialist prepares individuals to provide technical assistance, support, and advice to computer users to help troubleshoot software and hardware problems. Includes instruction in computer concepts, information systems, networking, operating systems, computer hardware, the Internet, software applications, help desk concepts and problem solving, and principles of customer service.

The Computer Support Specialist with Emphasis in Cyber Security technical certificate program prepares students to work in the field of Cyber Security. Learning opportunities develop academic, technical and professional knowledge and skills required for job acquisition. The program is comprised of a set of core courses in information technology fundamentals and advanced courses focused on Cyber law/ethics, server security, digital forensics, and advanced network security. Program electives provide students with the opportunity to concentrate on additional IT technical skills. Program graduates may also receive a Computer Support Specialist Emphasis in Cyber Security technical certificate. The WSU Tech Computer Support Specialist program is aligned with the National Center for Education Statistics CIP code 11.1006: Computer Support Specialist prepares individuals to provide technical assistance, support, and advice to computer users to help troubleshoot software and hardware problems. Includes instruction in computer concepts, information systems, networking, operating systems, computer hardware, the Internet, software applications, help desk concepts and problem solving, and principles of customer service.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Computer Support Specialist, TC - $10,699.00

Computer Support Specialist with Emphasis in Cyber Security, TC - $10,813.00

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.

Campus Location
WSU Tech South – 3821 E. Harry, Wichita, KS 67218

Requirements

Simple Requisites

Program Requirements

Computer Support Specialist, TC
Type
Completion Requirement

Computer Support Specialist, TC

Complete ALL of the following Courses:

- INF105 - CompTIA A+ Core 1 - 3 Credits
- INF110 - CompTIA A+ Core 2 - 3 Credits
- INF112 - Network Essentials - 3 Credits
- INF115 - Network+ Part I - 3 Credits
- INF116 - Network+ Part II - 3 Credits
- INF120 - Security+ - 3 Credits
- INF134 - Server + - 3 Credits
- INF139 - Cybersecurity Essentials - 3 Credits
- INF142 - Cloud+ - 3 Credits
- INF144 - Virtualization - 3 Credits
- INF164 - Switching, Routing, & Wireless - 3 Credits
- INF167 - Enterprise Network, Sec & Auto - 3 Credits
- INF172 - Multi-Cloud Networking - 3 Credits
- INF174 - Info Technology Capstone - 3 Credits
  OR INF175 - Info Technology Internship - 3 Credits

Computer Support Specialist with Emphasis in Cyber Security, TC
Type
Completion Requirement

Computer Support Specialist with Empahsis In Cyber Security Requirements

Complete ALL of the following Courses:

- INF105 - CompTIA A+ Core 1 - 3 Credits
- INF110 - CompTIA A+ Core 2 - 3 Credits
- INF112 - Network Essentials - 3 Credits
- INF113 - Introduction to Programming - 3 Credits
- INF115 - Network+ Part I - 3 Credits
- INF116 - Network+ Part II - 3 Credits
- INF120 - Security+ - 3 Credits
- INF134 - Server + - 3 Credits
- INF136 - Introduction to PowerShell - 3 Credits
- INF139 - Cybersecurity Essentials - 3 Credits
- INF154 - Ethical Hacker - 3 Credits
- INF160 - Server Security - 3 Credits
- INF165 - Advanced Cyber Security - 3 Credits
- INF174 - Info Technology Capstone - 3 Credits
  OR INF175 - Info Technology Internship - 3 Credits

Entry Requirements

- Be 16 years of age or older
- Completion of application and related procedures

Degree Maps

Degree Map Name
Computer Support Specialist with Emphasis in Cyber Security
Total Degree Map Credits
42
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	12	0

Requirement Select
- INF105 - CompTIA A+ Core 1

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- INF110 - CompTIA A+ Core 2

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- INF112 - Network Essentials

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- INF139 - Cybersecurity Essentials

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	12	0

Requirement Select
- INF115 - Network+ Part I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- INF116 - Network+ Part II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- INF120 - Security+

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- INF134 - Server +

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	9	0

Requirement Select

- INF160 - Server Security

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- INF165 - Advanced Cyber Security

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- INF174 - Information Technology Capstone

OR

- INF175 - Information Technology Internship

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	135
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	9	0

Requirement Select

- INF113 - Introduction to Programming

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- INF136 - Introduction to PowerShell

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select

- INF154 - Ethical Hacker

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Degree Map Name
Computer Support Specialist, TC
Total Degree Map Credits
42
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	12	0

Requirement Select
- INF105 - CompTIA A+ Core 1

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- INF110 - CompTIA A+ Core 2

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- INF112 - Network Essentials

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- INF139 - Cybersecurity Essentials

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	12	0

Requirement Select
- INF115 - Network+ Part I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- INF116 - Network+ Part II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- INF120 - Security+

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- INF134 - Server +

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	9	0

Requirement Select

- INF164 - Switching, Routing, and Wireless Essentials

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- INF167 - Enterprise Networking, Security, and Automation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- INF174 - Information Technology Capstone

  OR
- INF175 - Information Technology Internship

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	135
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	9	0

Requirement Select

- INF142 - Cloud+

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select

- INF144 - Virtualization

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- INF172 - Multi-Cloud Networking

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

TC-IT_ESSENT - Computer Support Specialist (Cert A), TC

Overview

Department(s)
Information Technology

Degree Designation
Technical Certificate

Catalog Full Description
The Computer Support Specialist technical certificate program prepares individuals to provide technical assistance, support, and advice to computer users to troubleshoot software, hardware and networking problems. The program includes instruction in computer concepts, information systems, networking, security, operating systems, the Internet, software applications, help desk concepts, effective written and verbal communication skills, team management, project management, customer service and problem-solving skills. Students are prepared to enter the workforce as a Computer User Support Specialist, Help Desk Technician, Technical Support Specialist or IT Support Representative. The WSU Tech Computer Support Specialist program is aligned with the National Center for Education Statistics CIP code 11.1006: Computer Support Specialist prepares individuals to provide technical assistance, support, and advice to computer users to help troubleshoot software and hardware problems. Includes instruction in computer concepts, information systems, networking, operating systems, computer hardware, the Internet, software applications, help desk concepts and problem solving, and principles of customer service.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Computer Support Specialist, Cert A - $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.

Campus Location
WSU Tech South – 3821 E. Harry, Wichita, KS 67218

Requirements

Simple Requisites

Program Requirements

Computer Support Specialist (Cert A), TC
Type
Completion Requirement

Computer Support Specialist (Cert A), TC

Complete ALL of the following Courses:

- INF105 - CompTIA A+ Core 1 - 3 Credits
- INF110 - CompTIA A+ Core 2 - 3 Credits
- INF112 - Network Essentials - 3 Credits
- INF115 - Network+ Part I - 3 Credits
- INF116 - Network+ Part II - 3 Credits
- INF139 - Cybersecurity Essentials - 3 Credits

Entry Requirements

- Be 16 years of age or older
- Completion of application and related procedures

Degree Maps

Degree Map Name
Computer Support Specialist (Cert A), TC
Total Degree Map Credits
18
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	9	0

Requirement Select

- INF105 - CompTIA A+ Core 1

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select

- INF110 - CompTIA A+ Core 2

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- INF112 - Network Essentials

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	9	0

Requirement Select

- INF115 - Network+ Part I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- INF116 - Network+ Part II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- INF139 - Cybersecurity Essentials

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

TC-LSC_MGMT - Logistics and Supply Chain Management, TC

Overview

Department(s)
Professional Studies

Degree Designation
Technical Certificate

Catalog Full Description
In this program students learn the fundamental principles of logistic and transportation. Students study the procurement, movement, storage and processing of materials and information across the entire supply chain. Students will study the process from the acquisition of raw materials and components through manufacturing to delivery of finished products to end users. Special attention is given to the roles of technology and customer service in the supply chain. Additional courses in project and business management, ethics and 15 credits of general education will provide student with the depth and breadth of knowledge needed to succeed in this growing field.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Logistics and Supply Management, TC - $6,403.00

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

Campus Location
WSU Tech South – 3821 E. Harry, Wichita, KS 67218

Requirements

Simple Requisites

Program Requirements

Logistics and Supply Chain Managment, TC
Type
Completion Requirement

Logistics and Supply Chain Management Requirements

Complete ALL of the following Courses:
- LGM101 - Principles Logistics & Supply - 3 Credits
- LGM102 - Inventory Control - 3 Credits
- LGM105 - Warehouse Management - 3 Credits
- LGM106 - Transportation & Traffic Mgmt - 3 Credits
- LGM108 - International Logistics - 3 Credits
- LGM150 - Supply Chain Analytics - 3 Credits
- LGM190 - Logistics & Supply Internship - 3 Credits
  OR LGM196 - Capstone in Logistics & Supply - 3 Credits
- BUS104 - Introduction to Business - 3 Credits
- ENG101 - Composition I - 3 Credits
- MTH108 - Contemporary Math - 3 Credits

Entry Requirements
- Be 16 years of age or older
- Completion of application and related procedures

Degree Maps

Degree Map Name
Logistics and Supply Chain Management, TC
Total Degree Map Credits
30
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	0

Requirement Select
- LGM101 - Principles of Logistics and Supply Chain Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- LGM102 - Inventory Control

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- BUS104 - Introduction to Business

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- ENG101 - Composition I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- MTH108 - Contemporary Math

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	12	0

Requirement Select

- LGM105 - Warehouse Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- LGM106 - Transportation and Traffic Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- LGM108 - International Logistics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- LGM150 - Supply Chain Analytics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	3	0

Requirement Select

- LGM190 - Logistics and Supply Chain Internship

OR

- LGM196 - Capstone in Logistics & Supply Chain Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45 - 125
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

TC-MACH_TECH - Machining Technology (Machining & Manufacturing Technology), TC

Overview

Department(s)
Manufacturing

Degree Designation
Technical Certificate

Catalog Full Description
This program gives the students the opportunity to gain skills, knowledge, and abilities in various machining processes and procedures. A significant emphasis is placed on CNC machining, including 3, 4, and 5-axis milling and CNC lathe. Classroom and laboratory instruction in safety, precision measuring, geometric dimension and tolerancing, and metrology is available. Students will enhance their competencies by gaining multi-machine setup and operations skills and robotic collaborative assist technologies, including machine tending and automatic part movement. Students will also gain advanced machining experience that includes hardened or exotic materials. Students will round out their experience by completing 15 credits of general education courses. The WSU Tech Machining Technology (Machining & Manufacturing Technology)program is aligned with the National Center for Education Statistics CIP code 48.0501: Machine Tool Technology/Machinist prepares individuals to apply technical knowledge and skills to plan, manufacture, assemble, test, and repair parts, mechanisms, machines, and structures in which materials are cast, formed, shaped, molded, heat treated, cut, twisted, pressed, fused, stamped or worked.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Machining Technology(Machining & Manufacturing Technology), TC - $9,107.00

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.

Campus Location
WSU Tech Main Campus - National Center for Aviation Training (NCAT) - 4004 N. Webb Rd., Wichita, KS 67226

Requirements

Simple Requisites

Program Requirements

Machining Technology (Machining & Manufacturing Technology), TC
Type
Completion Requirement

Machining Technology (Machining & Manufacturing Technology), TC

Complete ALL of the following Courses:

- MMG113 - Print Reading - 3 Credits
- MMG116 - Quality Control & Inspection - 1 Credits
- MMG130 - Bench Work - 1 Credits
- MMG131 - Metallurgy - 1 Credits
- MMG135 - Machining Fundamentals - 3 Credits
- MMG140 - Metrology - 4 Credits
- MMG155 - CNC Lathe - 3 Credits
- MMG156 - CNC Operations - 3 Credits
- MMG160 - CNC Milling I - 3 Credits
- MMG170 - Mastercam Mill 2 Axis - 4 Credits
- MMG184 - Multi-Axis Milling - 4 Credits
- AVC110 - Safety/OSHA 10 - 1 Credits
- MCD106 - Precision Measuring - 2 Credits
- PDV115 - Work Ethics - 2 Credits

Entry Requirements
Be 16 years of age or older

Degree Maps

Degree Map Name
Machining Technology (Machining & Manufacturing Technology), TC
Total Degree Map Credits
35
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	20	0

Requirement Select

- MMG113 - Print Reading

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- MMG116 - Quality Control & Inspection

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select

- MMG131 - Metallurgy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- MMG135 - Machining Fundamentals

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- MMG155 - CNC Lathe

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- MMG156 - CNC Operations

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- MMG160 - CNC Milling I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- AVC110 - Safety/OSHA 10

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- PDV115 - Work Ethics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select
- MMG130 - Bench Work

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- MMG140 - Metrology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select
- MMG170 - Mastercam Mill 2 Axis

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select
- MMG184 - Multi-Axis Milling

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select
- MCD106 - Precision Measuring

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

TC-MECH_ENGR - Engineering Design Technology, TC

Overview

Department(s)
Manufacturing

Degree Designation
Technical Certificate

Catalog Full Description
The Engineering Design Technology program prepares students for careers in engineering, manufacturing, and product development by equipping them with the technical skills needed to create and analyze engineering designs. Students learn to develop detailed technical drawings, 3D models, and prototypes using industry-standard software such as AutoCAD, SolidWorks, and CATIA. The curriculum covers fundamental engineering principles, materials science, and manufacturing processes. Emphasis is placed on problem-solving, innovation, and collaboration, enabling students to work effectively with engineers, manufacturers, and designers. Additionally, students gain experience in rapid prototyping, 3D printing, and computer-aided design (CAD), ensuring they are prepared for the latest advancements in the industry. Graduates of the Engineering Design Technology program are well-prepared for careers as engineering technicians, CAD designers, mechanical drafters, and product development specialists in industries such as aerospace, automotive, manufacturing, and consumer products. Students will round off their educational experience by completing 3 credits of general education courses in communications.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Engineering Design Technology, TC - $12,791.00

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.

Campus Location
WSU Tech Main Campus - National Center for Aviation Training (NCAT) - 4004 N. Webb Rd., Wichita, KS 67226

Requirements

No Requirements

Entry Requirements
- Be 16 years of age or older
- Complete all admission documents

Degree Maps

Degree Map Name
Engineering Design Technology, TC
Total Degree Map Credits
45
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	12	0

Requirement Select
- MCD101 - Introduction to CAD I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- MCD102 - Introduction to CAD II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- MCD104 - Blueprint Reading for Drafting

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- MCD106 - Precision Measuring

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- MCD121 - Descriptive Geometry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	14	3

Requirement Select
- MCD115 - Machine Drafting & Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- MCD124 - Advanced AutoCAD

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select
- MCD137 - Introduction to 3D Printing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- Engineering Design Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Requirement Select
- PDV115 - Work Ethics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	11	3

Requirement Select
- CAT101 - CATIA Part Design & Sketcher

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select
- CAT105 - CATIA Assembly Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select
- Communication Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	8	0

Requirement Select
- CAT103 - CATIA 3D Tolerancing & Annotations

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select
- CAT110 - CATIA Wireframe & Surfaces

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

TC-MECH_PNTR - Process Mechanic Painter, TC

Overview

Department(s)
Aviation

Degree Designation
Technical Certificate

Catalog Full Description
Aerospace Coatings & Paint Technology associate degree program is a sequence of courses designed to produce an aerospace technician with multiple skill sets, a well-rounded understanding of the aerospace industry and the depth and breadth of knowledge which comes from general education courses. This program provides a broad-based understanding of coating and paint processes within the aerospace industry. The curriculum includes comprehensive learning experiences in all aspects of the coating and paint industry including formulation, application and specialized areas.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Process Mechanic Painter, TC $5,185.00

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.

Campus Location
WSU Tech Main Campus - National Center for Aviation Training (NCAT) - 4004 N. Webb Rd., Wichita, KS 67226

Requirements

Simple Requisites

Program Requirements

Process Mechanic Painter, TC
Type
Completion Requirement

Process Mechanic Painter Course Requirement

Complete ALL of the following Courses:

- ACP100 - Intro to Coatings & Paint Tech - 3 Credits
- ACP101 - Surface Preparation & Coatings - 4 Credits
- ACP104 - Specialized Coatings Processes - 3 Credits
- ACP145 - Environmental Health & Safety - 2 Credits
- AVC105 - Aircraft Familiarization - 1 Credits
- AVC110 - Safety/OSHA 10 - 1 Credits
- AVC112 - Blueprint Reading - 2 Credits

Entry Requirements

- Be 16 years of age or older
- Complete College Admissions documents

Degree Maps

Degree Map Name
Process Mechanic Painter, TC
Total Degree Map Credits
16
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16	0

Requirement Select

- ACP100 - Introduction to Coatings & Paint Technology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- ACP101 - Surface Preparation & Coatings

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select

- ACP104 - Specialized Coatings Processes

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select

- ACP145 - Environmental Health and Safety

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select

- AVC105 - Aircraft Familiarization

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- AVC110 - Safety/OSHA 10

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- AVC112 - Blueprint Reading

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Total General Education Credits
0

Total Major Credits
0

Total Minor Credits
0

Total Elective Credits
0

TC-MED_CARE - Patient Care Technology, TC

Overview

Department(s)
Health Sciences

Degree Designation
Technical Certificate

Catalog Full Description
The Patient Care Technician Program prepares graduates to assist doctors, nurses and other healthcare professionals in providing patient care in a variety of healthcare environments. The classroom and clinical experiences support industry's need for healthcare professionals who are proficient in a variety of direct patient care areas. As a result, graduates of the program have the opportunity to take certification exams in multiple direct patient care areas including Certified Nurse Aide, EKG Technician, Phlebotomy technician and Patient Care Technician.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Patient Care Technician, TC - $4,398.00

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

Campus Location
WSU Tech South – 3821 E. Harry, Wichita, KS 67218

Requirements

Simple Requisites

Program Requirements

Patient Care Technician, (CERT A)
Type
Completion Requirement

Patient Care Technician Requirements

Complete ALL of the following Courses:
- PCT100 - EKG for Healthcare Providers - 4 Credits
- PCT110 - Phlebotomy and Lab Procedures - 4 Credits
- PCT130 - PCT Concepts and Tech Skills - 3 Credits
- ALH101 - Medical Terminology - 3 Credits
- CPR001 - CPR For Healthcare Providers - 1 Credits
- CNA101 - Certified Nurse Aide - 5 Credits

Entry Requirements
- Attainment of 16 or more years of age to enter the program .
- Documentation of high school graduation or satisfaction of high school equivalency certificate requirements, or students currently enrolled in high school or GED program and have attained junior status
- Documented negative PPD TB skin test within the last year or negative chest X-Ray within the last three years
- US Social Security Card
- Completion of application

Degree Maps

Degree Map Name
Patient Care Technician, TC
Total Degree Map Credits
20
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	11	0

Requirement Select
- PCT100 - EKG for Healthcare Providers

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select

- PCT110 - Phlebotomy and Laboratory Procedures

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select

- ALH101 - Medical Terminology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	9	0

Requirement Select

- PCT130 - Patient Care Concepts and Technical Skills

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- CPR001 - CPR For Healthcare Providers

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select

- CNA101 - Certified Nurse Aide

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	120
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

TC-MNF_CORE - Manufacturing Assembly Basics, TC

Overview

Department(s)
Manufacturing

Degree Designation
Technical Certificate

Catalog Full Description
This program provides graduates with a well-rounded education in basic manufacturing processes and progresses them through multiple manufacturing concepts to more advanced automation skills including industry specific skills of assembly and production for a variety of manufacturing sectors. All students will experience a core curriculum focused on the foundational skills in manufacturing processes including precision measuring, blueprint reading quality control, and basic design concepts. Different pathways allow for students to learn on state-of-the-art industrial trainers and systems to match industry skills in assembly, operations, fabrication, maintenance, and CNC operators. Onsite networks allow the building of virtual factories, buildings, and other smart components. Students will create integration scenarios, troubleshooting activities, root-cause analysis, and other real-world scenarios.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Manufacturing Assembly Basics, Technical Certificate A - $7,355.00

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.

Campus Location
WSU Tech Main Campus - National Center for Aviation Training (NCAT) - 4004 N. Webb Rd., Wichita, KS 67226, FUTURE READY CENTER - 1403 North Waco, Wichita, KS 67203

Requirements

Simple Requisites

Program Requirements

Manufacturing Assembly Basics, TC
Type
Completion Requirement

Manufacturing Assembly Basics Requirement

Complete ALL of the following Courses:

- MNF110 - CNC Basics - 2 Credits
- MNF113 - Blueprint Basics Manufacturing - 2 Credits
- MNF115 - Forklift Operations - 1 Credits
- MNF120 - Processes & Production I - 3 Credits
- MNF125 - Maintenance Training - 4 Credits
- MNF130 - Processes & Production II - 3 Credits
- MNF163 - Production Assembly - 3 Credits
- AVC104 - Quality Control Concepts - 1 Credits
- AVC110 - Safety/OSHA 10 - 1 Credits
- AVC135 - Hand Tools - 1 Credits
- AVC145 - Power Island - 1 Credits
- MCD106 - Precision Measuring - 2 Credits
- MCD137 - Introduction to 3D Printing - 2 Credits
- MMG131 - Metallurgy - 1 Credits
- PDV115 - Work Ethics - 2 Credits

Entry Requirements
Attainment of 16 or more years of age

Degree Maps

Degree Map Name
Manufacturing Assembly Basics, TC
Total Degree Map Credits
29
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	11	0

Requirement Select

- MNF113 - Blueprint Basics For Manufacturing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select

- MNF115 - Forklift Operations

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select

- MNF120 - Manufacturing Processes & Production I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select

- AVC104 - Quality Control Concepts

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select

- AVC110 - Safety/OSHA 10

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- AVC135 - Hand Tools

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- AVC145 - Power Island

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- MMG131 - Metallurgy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	18	0

Requirement Select
- MNF110 - CNC Basics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- MNF125 - Maintenance Training

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select
- MNF130 - Manufacturing Processes & Production II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- MNF163 - Production Assembly

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- MCD106 - Precision Measuring

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- MCD137 - Introduction to 3D Printing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- PDV115 - Work Ethics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

TC-MNF_MAINT - Manufacturing Technology, TC

Overview

Department(s)
Manufacturing

Degree Designation
Technical Certificate

Catalog Full Description
This program provides graduates with a well-rounded education in basic manufacturing processes and progresses them through multiple manufacturing concepts to more advanced automation skills including industry specific skills of assembly and production for a variety of manufacturing sectors. All students will experience a core curriculum focused on the foundational skills in manufacturing processes including precision measuring, blueprint reading quality control, and basic design concepts. Different pathways allow for students to learn on state-of-the-art industrial trainers and systems to match industry skills in assembly, operations, fabrication, maintenance, and CNC operators. Onsite networks allow the building of virtual factories, buildings, and other smart components. Students will create integration scenarios, troubleshooting activities, root-cause analysis, and other real-world scenarios

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Manufacturing Technology, TC - $11,838.00
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.

Campus Location
WSU Tech Main Campus - National Center for Aviation Training (NCAT) - 4004 N. Webb Rd., Wichita, KS 67226, FUTURE READY CENTER - 1403 North Waco, Wichita, KS 67203

Requirements

Simple Requisites

Program Requirements

Manufacturing Technology, TC
Type
Completion Requirement

Manufacturing Technology Requirement

Complete ALL of the following Courses:
- MNF110 - CNC Basics - 2 Credits
- MNF113 - Blueprint Basics Manufacturing - 2 Credits
- MNF115 - Forklift Operations - 1 Credits
- MNF120 - Processes & Production I - 3 Credits
- MNF125 - Maintenance Training - 4 Credits
- MNF130 - Processes & Production II - 3 Credits
- MNF163 - Production Assembly - 3 Credits
- AVC104 - Quality Control Concepts - 1 Credits
- AVC110 - Safety/OSHA 10 - 1 Credits
- AVC135 - Hand Tools - 1 Credits
- AVC145 - Power Island - 1 Credits
- MCD106 - Precision Measuring - 2 Credits
- MCD137 - Introduction to 3D Printing - 2 Credits
- MMG131 - Metallurgy - 1 Credits
- PDV115 - Work Ethics - 2 Credits

Manufacturing Technology Elective

Earn at least 16 credits from the following:
- Manufacturing Technology Electives

Entry Requirements
Attainment of 16 or more years of age

Degree Maps

Degree Map Name
Manufacturing Technology, TC
Total Degree Map Credits
45
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	11	0

Requirement Select
- MNF113 - Blueprint Basics For Manufacturing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- MNF115 - Forklift Operations

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- MNF120 - Manufacturing Processes & Production I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- AVC104 - Quality Control Concepts

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- AVC110 - Safety/OSHA 10

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- AVC135 - Hand Tools

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- AVC145 - Power Island

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- MMG131 - Metallurgy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	18	0

Requirement Select
- MNF110 - CNC Basics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- MNF125 - Maintenance Training

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select
- MNF130 - Manufacturing Processes & Production II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- MNF163 - Production Assembly

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- MCD106 - Precision Measuring

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- MCD137 - Introduction to 3D Printing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- PDV115 - Work Ethics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	16	16

Requirement Select
- Manufacturing Technology Electives

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	8
Progress Credits	8
Contact Hours	8
Clinical	-
Criticality	No

Requirement Select
- Manufacturing Technology Electives

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	8
Progress Credits	8
Contact Hours	8
Clinical	-
Criticality	No

Total General Education Credits
0

Total Major Credits
0

Total Minor Credits
0

Total Elective Credits
0

TC-MNF_PROD - Manufacturing Assembly, TC

Overview

Department(s)
Manufacturing

Degree Designation
Technical Certificate

Catalog Full Description
This program provides graduates with a well-rounded education in basic manufacturing processes and progresses them through multiple manufacturing concepts to more advanced automation skills including industry specific skills of assembly and production for a variety of manufacturing sectors. All students will experience a core curriculum focused on the foundational skills in manufacturing processes including precision measuring, blueprint reading quality control, and basic design concepts. Different pathways allow for students to learn on state-of-the-art industrial trainers and systems to match industry skills in assembly, operations, fabrication, maintenance, and CNC operators. Onsite networks allow the building of virtual factories, buildings, and other smart components. Students will create integration scenarios, troubleshooting activities, root-cause analysis, and other real-world scenarios

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Manufacturing Assembly, TC - $9,612.00

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.

Campus Location
WSU Tech Main Campus - National Center for Aviation Training (NCAT) - 4004 N. Webb Rd., Wichita, KS 67226, FUTURE READY CENTER - 1403 North Waco, Wichita, KS 67203

Requirements

No Requirements

Entry Requirements
Attainment of 16 or more years of age

Degree Maps

Degree Map Name
Manufacturing Assembly, TC
Total Degree Map Credits
37
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	11	0

Requirement Select
- MNF113 - Blueprint Basics For Manufacturing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- MNF115 - Forklift Operations

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- MNF120 - Manufacturing Processes & Production I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- AVC104 - Quality Control Concepts

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- AVC110 - Safety/OSHA 10

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- AVC135 - Hand Tools

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- AVC145 - Power Island

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- MMG131 - Metallurgy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	18	0

Requirement Select
- MNF110 - CNC Basics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- MNF125 - Maintenance Training

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select
- MNF130 - Manufacturing Processes & Production II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- MNF163 - Production Assembly

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- MCD106 - Precision Measuring

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- MCD137 - Introduction to 3D Printing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- PDV115 - Work Ethics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	8	8

Requirement Select
- Manufacturing Technology Electives

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	8
Progress Credits	8
Contact Hours	8
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

TC-MNT_HLTH - Mental Health Technician, TC

Overview

Department(s)
Nursing

Degree Designation
Technical Certificate

Catalog Full Description
The Mental Health Technician program integrates core mental health courses with general education. Students engage in hands-on learning, developing technical proficiency in nursing skills, emergency procedures, and advanced techniques. The curriculum emphasizes mental health competence, covering the causes and treatment of mental illness, resilience, and effective communication. The program also focuses on pharmacology and drug administration skills and insights into behavioral science factors impacting mental health. Graduates emerge with a well-rounded skill set to provide compassionate care in mental and physical health settings and are prepared to take the Licensed Mental Health Technician exam.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Mental Health Technician, TC - $10,811.00

Campus Location
WSU Tech South – 3821 E. Harry, Wichita, KS 67218

Requirements

Simple Requisites

Program Requirements

Mental Health Technician, TC
Type
Completion Requirement

Mental Health Technician Requirements

Complete ALL of the following Courses:
- MNT120 - Understanding Mental Illness - 2 Credits
- MNT140 - Technical Health Skills I - 5 Credits

- MNT130 - Behavioral Science - 3 Credits
- MNT170 - Pharmacology & Drug Admin - 8 Credits
- MNT180 - Technical Health Skills II - 5 Credits
- MNT190 - Therapeutic Communication - 2 Credits
- MNT200 - Psychiatric Interventions - 8 Credits
- PSY101 - General Psychology - 3 Credits
- PSY120 - Developmental Psychology - 3 Credits

Entry Requirements
Be 18 years of age or older to participate in clinicals, Documentation of high school graduation or satisfaction of high school equivalency certificate requirements, or students currently enrolled in high school or GED program and have attained junior status, Completion of application and related procedures

Degree Maps

Degree Map Name
Mental Health Technician, TC
Total Degree Map Credits
39
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16	0

Requirement Select
- MNT120 - Understanding Mental Illness

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- MNT130 - Behavioral Science

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- MNT140 - Technical Health Skills I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	135
Clinical	-
Criticality	No

Requirement Select
- PSY101 - General Psychology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- PSY120 - Developmental Psychology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	23	0

Requirement Select
- MNT170 - Pharmacology & Drug Administration

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	8
Progress Credits	-
Contact Hours	165
Clinical	-
Criticality	No

Requirement Select
- MNT180 - Technical Health Skills II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	135
Clinical	-
Criticality	No

Requirement Select
- MNT190 - Therapeutic Communication

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- MNT200 - Psychiatric Interventions

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	8
Progress Credits	-
Contact Hours	210
Clinical	-
Criticality	No

Total General Education Credits
0
Total Major Credits
0
Total Minor Credits
0
Total Elective Credits
0

TC-MOB_EQPA - Mobile Equipment Technology, Cert A

Overview

Department(s)
Applied Technologies

Degree Designation
TCERT - Technical Certificate

Catalog Full Description
The Mobile Equipment Technology program equips students with the skills to service, repair, and operate diesel-powered mobile equipment. Core training includes engine systems, hydraulics, powertrains, and electrical diagnostics, along with hands-on experience in preventive maintenance and heavy equipment operation.

At the Technical Certificate level, students may choose either the Mobile Equipment Technology or Heavy Equipment Operator track. This flexible structure supports diverse career paths in equipment repair or machinery operation, preparing graduates for employment in construction, agriculture, transportation, and related industries.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Campus Location
WSU Tech City Center – 301 S. Grove, Wichita, KS 67211, CTEC + WSU Tech – 1301 E. 27th Terrace, Pittsburg, KS 66762

Requirements

Simple Requisites

Program Requirements

Mobile Equipment Technology, Certificate A
Type
Completion Requirement

Mobile Equipment Technology Requirements

Complete ALL of the following Courses:
- EQP120 - Heavy Equipment Operations I - 4 Credits
- EQP130 - Heavy Equipment Operations II - 4 Credits
- EQP140 - Heavy Equipment Operations III - 4 Credits
- EQP150 - Heavy Equipment Operations IV - 5 Credits
- EQP160 - Heavy Equipment Operations V - 5 Credits
- EQP170 - Heavy Equipment Operations VI - 5 Credits
- TAS160 - Transportation Industry Safety - 1 Credits

Entry Requirements
- 16 years of age
- Completed all college admission documents

Degree Maps

Degree Map Name
Mobile Equipment Technology, Certificate A
Total Degree Map Credits
28
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	13	0

Requirement Select
- EQP120 - Heavy Equipment Operations I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select
- EQP130 - Heavy Equipment Operations II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select
- EQP140 - Heavy Equipment Operations III

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select
- TAS160 - Transportation Industry Safety

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select
- EQP150 - Heavy Equipment Operations IV

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	135
Clinical	-
Criticality	No

Requirement Select
- EQP160 - Heavy Equipment Operations V

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	135
Clinical	-
Criticality	No

Requirement Select
- EQP170 - Heavy Equipment Operations VI

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	135
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

TC-MOB_EQPM - Mobile Equipment Technology, Cert C

Overview

Department(s)
Applied Technologies

Degree Designation
Technical Certificate

Catalog Full Description
The Mobile Equipment Technology program prepares students to service, maintain, repair, and operate a variety of diesel-powered mobile equipment. Students develop a strong understanding of engine systems, hydraulics, electrical systems, powertrains, and other critical sub-systems. Through hands-on training, students learn to diagnose component failures, perform timely and accurate repairs, conduct preventive maintenance, and safely operate heavy equipment used across multiple industries. Students may pursue one of three tracks at the Associate of Applied Science (AAS) degree level: Mobile Equipment Technology (equipment maintenance and repair focus),Mobile Equipment Technology - Think Big (specialized Caterpillar Inc. partnership program), Heavy Equipment Operator (operation of bulldozers, excavators, loaders, and related heavy machinery). At the Technical Certificate (TC) level, students may choose between the Mobile Equipment Technology or Heavy Equipment Operator tracks. (The Think Big program is available only at the AAS level.) This flexible structure allows students to tailor their education to match their career goals, whether they aim to specialize in equipment maintenance and diagnostics or develop expertise in heavy equipment operation. Graduates are prepared for employment in industries such as construction, agriculture, transportation, energy, and heavy equipment services.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Mobile Equipment Technolgoy , TC - $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.

Campus Location
WSU Tech City Center – 301 S. Grove, Wichita, KS 67211

Requirements

Simple Requisites

Program Requirements

Mobile Equipment Technology, TC
Type
Completion Requirement

Mobile Equipment Technology Requirements

Complete ALL of the following Courses:

- EQP121 - Diesel Engine Repair - 4 Credits
- EQP132 - Fuel & Exhaust Systems - 3 Credits
- EQP134 - Machine Specific Systems - 1 Credits
- EQP135 - Mobile Equipment Diagnostics - 3 Credits
- EQP180 - Fluid Power - 4 Credits
- EQP206 - Powertrain Systems - 4 Credits
- EQP210 - Dealership Fundamentals - 2 Credits
- EQP220 - Advanced Fluid Power - 2 Credits
- TAS105 - Orientation to Transportation - 1 Credits
- TAS124 - Electrical I - 3 Credits
- TAS125 - Electrical II - 3 Credits
- TAS128 - Heating & Air Conditioning - 4 Credits
- TAS131 - Engine Performance I - 3 Credits
- TAS133 - Brakes I - 3 Credits
- TAS136 - Suspension and Steering I - 3 Credits
- TAS160 - Transportation Industry Safety - 1 Credits
- TAS225 - Electrical III - 2 Credits

General Education Requirements

Complete ANY of the following Course Sets:

- Math Elective

Entry Requirements

· Be 16 years of age or older

· Show documentation of high school graduation or satisfaction of high school equivalency prior to graduation from the program

· Meet entrance exam requirements for general education requirements

· Complete college admissions documentation

Degree Maps

Degree Map Name
Mobile Equipment Technology, TC
Total Degree Map Credits
49

Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	22	0

Requirement Select

- EQP121 - Diesel Engine Repair

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select

- EQP180 - Fluid Power

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select

- EQP220 - Advanced Fluid Power

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- TAS105 - Orientation to the Transportation Industry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- TAS124 - Electrical I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- TAS128 - Heating & Air Conditioning

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- TAS136 - Suspension and Steering I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- TAS160 - Transportation Industry Safety

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	22	3

Requirement Select
- EQP132 - Fuel & Exhaust Systems

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- EQP135 - Mobile Equipment Diagnostics Test

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- EQP206 - Powertrain Systems

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- TAS125 - Electrical II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- TAS131 - Engine Performance I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- TAS133 - Brakes I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- Math Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	5	0

Requirement Select
- EQP134 - Machine Specific Systems

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- EQP210 - Dealership Fundamentals

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- TAS225 - Electrical III

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

TC-MULTI_AXS - Multi Axis Machining (Machining & Manufacturing Technology), TC

Overview

Department(s)
Manufacturing

Degree Designation
Technical Certificate

Catalog Full Description
This program gives the students the opportunity to gain skills, knowledge, and abilities in various machining processes and procedures. A significant emphasis is placed on CNC machining, including 3, 4, and 5-axis milling and CNC lathe. Classroom and laboratory instruction in safety, precision measuring, geometric dimension and tolerancing, and metrology is available. Students will enhance their competencies by gaining multi-machine setup and operations skills and robotic collaborative assist technologies, including machine tending and automatic part movement. Students will also gain advanced machining experience that includes hardened or exotic materials. Students will round out their experience by completing 15 credits of general education courses. The WSU Tech Machining Technology (Machining & Manufacturing Technology)program is aligned with the National Center for Education Statistics CIP code 48.0501: Machine Tool Technology/Machinist prepares individuals to apply technical knowledge and skills to plan, manufacture, assemble, test, and repair parts, mechanisms, machines, and structures in which materials are cast, formed, shaped, molded, heat treated, cut, twisted, pressed, fused, stamped or worked.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Multi Axis Machining (Machining & Manufacturing Technology), TC - $13,483.00

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.

Campus Location
WSU Tech Main Campus - National Center for Aviation Training (NCAT) - 4004 N. Webb Rd., Wichita, KS 67226

Requirements

Simple Requisites

Program Requirements

Multi Axis Machining (Machining & Manufacturing Technology), TC
Type
Completion Requirement

Multi Axis Machining (Machining & Manufacturing Technology) Requirements

Complete ALL of the following Courses:

- MMG113 - Print Reading - 3 Credits
- MMG116 - Quality Control & Inspection - 1 Credits
- MMG130 - Bench Work - 1 Credits
- MMG131 - Metallurgy - 1 Credits
- MMG132 - Machine Tool Processes - 1 Credits
- MMG135 - Machining Fundamentals - 3 Credits
- MMG140 - Metrology - 4 Credits
- MMG154 - Multi-Cell Operations - 4 Credits
- MMG155 - CNC Lathe - 3 Credits
- MMG156 - CNC Operations - 3 Credits
- MMG160 - CNC Milling I - 3 Credits
- MMG164 - Advanced Machining Processes - 3 Credits
- MMG170 - Mastercam Mill 2 Axis - 4 Credits
- MMG173 - G D & T for Machining - 3 Credits
- MMG180 - Mastercam 4 & 5 Axis Mill - 4 Credits
- MMG184 - Multi-Axis Milling - 4 Credits
- AVC110 - Safety/OSHA 10 - 1 Credits
- MCD106 - Precision Measuring - 2 Credits
- PDV115 - Work Ethics - 2 Credits

General Education Requirement

Complete ANY of the following Course Sets:

- Math Elective

Entry Requirements
Be 16 years of age or older

Degree Maps

Degree Map Name
Multi Axis Machining (Machining & Manufacturing Technology), TC
Total Degree Map Credits
53
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	24	3

Requirement Select

- MMG113 - Print Reading

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- MMG116 - Quality Control & Inspection

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select

- MMG131 - Metallurgy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select

- MMG132 - Machine Tool Processes

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- MMG135 - Machining Fundamentals

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- MMG155 - CNC Lathe

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- MMG156 - CNC Operations

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- MMG160 - CNC Milling I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- AVC110 - Safety/OSHA 10

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- PDV115 - Work Ethics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- Math Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	15	0

Requirement Select
- MMG130 - Bench Work

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- MMG140 - Metrology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select
- MMG170 - Mastercam Mill 2 Axis

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select
- MMG184 - Multi-Axis Milling

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select
- MCD106 - Precision Measuring

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	14	0

Requirement Select
- MMG154 - Multi-Cell Operations

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select
- MMG164 - Advanced Machining Processes

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- MMG173 - G D & T for Machining

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- MMG180 - Mastercam 4 & 5 Axis Mill

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

TC-NDT - Nondestructive Testing, TC

Overview

Department(s)
Aviation

Degree Designation
Technical Certificate

Catalog Full Description
The Nondestructive Testing Certificate program prepares students for a career as an NDT practitioner in varied industries to include aviation, defense, petrochemical, nuclear and maritime. Courses are aligned to meet the Level 1 and Level 2 requirements of National Aerospace Standard 410 and the American Society for Nondestructive Testing recommended practice SNT-TC-1A for organized formal training. The NDT certificate prepares students for employment in six NDT methods including liquid penetrant, ultrasonic, eddy current, visual, radiography and magnetic particle inspection as well as radiation safety.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Nondestructive Testing, TC - $12,550.00

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

Campus Location
WSU Tech Main Campus - National Center for Aviation Training (NCAT) - 4004 N. Webb Rd., Wichita, KS 67226

Requirements

Simple Requisites

Program Requirements

Nondestructive Testing, TC
Type
Completion Requirement

Nondestructive Testing Requirements

Complete ALL of the following Courses:

- NDT100 - Penetrant Inspection - 3 Credits
- NDT101 - Magnetic Particle Testing - 3 Credits
- NDT102 - Radiation Safety - 3 Credits
- NDT103 - Radiographic Testing Level II - 3 Credits
- NDT106 - Formulations and Calculations - 2 Credits
- NDT107 - Radiographic Testing Level I - 3 Credits
- NDT110 - Eddy Current Level I - 3 Credits
- NDT111 - Eddy Current Level II - 3 Credits
- NDT112 - Ultrasonic Test Method Lvl I - 3 Credits
- NDT113 - Ultrasonic Test Method Lvl II - 3 Credits
- NDT114 - Visual Inspection - 2 Credits
- NDT123 - Adv Ultrasonic Testing Methods - 5 Credits
- AVC102 - Precision Instruments - 1 Credits
- AVC110 - Safety/OSHA 10 - 1 Credits
- CFT101 - Introduction To Composites - 2 Credits

General Education Requirement

Complete ANY of the following Course Sets:

- Humanities Elective

Entry Requirements
Be 18 years of age or older

Degree Maps

Degree Map Name
Nondestructive Testing, TC
Total Degree Map Credits
43
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	19	0

Requirement Select

- NDT100 - Penetrant Inspection

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- NDT101 - Magnetic Particle Testing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	40
Clinical	-
Criticality	No

Requirement Select

- NDT106 - Formulations and Calculations

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- NDT110 - Eddy Current Level I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	40
Clinical	-
Criticality	No

Requirement Select
- NDT111 - Eddy Current Level II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- NDT112 - Ultrasonic Testing Method Level I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	40
Clinical	-
Criticality	No

Requirement Select
- NDT114 - Visual Inspection

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	17	0

Requirement Select
- NDT102 - Radiation Safety

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- NDT103 - Radiographic Testing Level II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- NDT107 - Radiographic Testing Level I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	40
Clinical	-
Criticality	No

Requirement Select
- NDT113 - Ultrasonic Testing Method Level II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- NDT123 - Advanced Ultrasonic Testing Methods

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	7	3

Requirement Select
- AVC102 - Precision Instruments

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- AVC110 - Safety/OSHA 10

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- CFT101 - Introduction To Composites

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- Humanities Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	3
Contact Hours	3
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

TC-PRAC_NRS - Practical Nursing, TC

Overview

Department(s)
Nursing

Degree Designation
Technical Certificate

Catalog Full Description
The Practical Nursing program provides the common body of knowledge and skills essential for the practical nurses entry into practice. The curriculum fulfills the educational requirements for licensure as a licensed practical nurse (LPN). Upon completion of the program, graduates are eligible to take the NCLEX-PN examination. This program does not offer credit for experiential learning. There are pathways for articulation to degree nursing programs. Students continuing their education for an ADN or BSN should consult a counselor regarding transfer of credit for all courses. The WSU Tech Practical Nurse program is aligned with the National Center for Education Statistics CIP code 51.3901: Licensed Practical/ Vocational Nurse Training: prepares individuals to assist in providing general nursing care under the direction of a registered nurse, physician or dentist. Includes instruction in taking patient vital signs, applying sterile dressings, patient health education, and assistance with examinations and treatment.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Practical Nursing, TC - $12,559.00

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.

Campus Location
WSU Tech South – 3821 E. Harry, Wichita, KS 67218

Requirements

Simple Requisites

Program Requirements

Practical Nursing, TC

Type
Completion Requirement

Practical Nursing Requirements

Complete ALL of the following Courses:

- PNR119 - KSPN Pharm and Safe Med Admin - 2 Credits
- PNR120 - KSPN Foundations of Nursing - 4 Credits
- PNR121 - KSPN Foundations Nrsng Clin - 2 Credits
- PNR128 - KSPN Nursing Care of Adults I - 5 Credits
- PNR129 - KSPN Care of Adults I Clinical - 3 Credits
- PNR130 - KSPN Maternal Child Nursing - 2 Credits
- PNR131 - KSPN Mtrnl Child Nrs Clinical - 1 Credits
- PNR135 - KSPN Mental Health Nursing - 2 Credits
- PNR138 - KSPN Nursing Care of Adults II - 5 Credits
- PNR139 - KSPN Care of Adults II Clin - 2 Credits
- PNR141 - KSPN Care of Aging Adults - 2 Credits
- PNR166 - KSPN Leadership, Roles & Issue - 2 Credits
- BIO110 - Principles of Biology - 5 Credits
  OR CHM110 - General Chemistry - 5 Credits
- BIO150 - Human Anatomy & Physiology - 5 Credits
- PSY110 - Child Psychology - 3 Credits
- PSY120 - Developmental Psychology - 3 Credits

Entry Requirements

- Composite NLN NEX Score of 138 or higher
- Verbal NLN NEX Score of 70 or higher

List additional Program Admission Requirements
Program Admissions Prerequisites

- Principles of Biology Or General Chemistry - BIO 110 requires Minimum Score of "B" within 5 years of completion date
- Anatomy and Physiology - Minimum Score of "B" within 5 years of completion date
- General Psychology - Minimum Score of "B"
- Developmental Psychology - Minimum Score of "B"
- ORI 1015 PN Information Session

Upon Admission to the Program

- Pay for and pass a criminal background check and drug screen test at an agency designated by WSUTech.
- Complete required health examinations and immunizations at their own expense, including COVID-19

Degree Maps

Degree Map Name
Practical Nursing, TC
Total Degree Map Credits
48
Degree Map Effective Catalog Year
2026 - 9999
Degree Map Narrative
The following courses must be completed prior to acceptance to the Practical Nursing program: BIO 110 or CHM 110, BIO 150, PSY 110 and PSY 120.

Year	Semester	Actual Credits	Progress Credits
-	-	16	0

Requirement Select

- BIO110 - Principles of Biology
  OR
- CHM110 - General Chemistry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select

- BIO150 - Human Anatomy & Physiology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select

- PSY101 - General Psychology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- PSY120 - Developmental Psychology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	16	0

Requirement Select

- PNR119 - KSPN Fundamentals of Pharmacology and Safe Medication Administration

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- PNR120 - KSPN Foundations of Nursing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- PNR121 - KSPN Foundations of Nursing Clinicals

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select

- PNR128 - KSPN Nursing Care of Adults I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select

- PNR129 - KSPN Nursing Care of Adults I Clinical

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	135
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	16	0

Requirement Select

- PNR130 - KSPN Maternal Child Nursing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select

- PNR131 - KSPN Maternal Child Nursing Clinical

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- PNR135 - KSPN Mental Health Nursing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- PNR138 - KSPN Nursing Care of Adults II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- PNR139 - KSPN Nursing Care of Adults II Clinical

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select
- PNR141 - KSPN Care of Aging Adults

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- PNR166 - KSPN Leadership, Roles, and Issues

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

TC-QUAL_INS - Quality Assurance Inspection, TC

Overview

Department(s)
Manufacturing

Degree Designation
Technical Certificate

Catalog Full Description
The Quality Assurance Inspection program offers students the foundational skills to excel in various manufacturing environments. This program is designed for individuals aiming to ensure that products meet industry standards and customer expectations, focusing on quality control and inspection techniques. Through courses such as Quality Documentation, students will learn the importance of meticulous record-keeping in maintaining quality assurance standards. The Material Testing and Analysis course introduces students to various testing methods to assess material properties and detect potential defects. Additionally, the Root Cause Analysis course empowers students to investigate failures and implement effective solutions to improve manufacturing processes. Students will delve into essential topics such as Traceability, ensuring every component can be traced throughout its lifecycle, and Precision Measuring, which is critical for verifying product specifications. Understanding Human Factors helps students recognize the influence of human behavior on quality outcomes, while Metrology teaches them the principles of measurement necessary for quality control. This program incorporates two applied learning opportunities, providing students with hands-on experience in real manufacturing settings. By the end of the program, graduates will possess the skills to carry out thorough inspections, conduct tests, and ensure products are produced to the highest quality standards, ready to support diverse manufacturing sectors.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Quality Assurance Inspection, TC - $7,287.00

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.

Campus Location
WSU Tech Main Campus - National Center for Aviation Training (NCAT) - 4004 N. Webb Rd., Wichita, KS 67226

Requirements

Simple Requisites

Program Requirements

Quality Assurance Inspection, TC
Type
Completion Requirement

Quality Assurance Inspection Requirements

Complete ALL of the following Courses:
- QAI135 - Quality Assurance Orientation - 1 Credits
- QAI145 - Quality Management - 3 Credits
- QAI155 - Quality Doc and Traceability - 3 Credits
- QAI201 - Geo Dimensioning & Tolerance - 3 Credits
- AVC110 - Safety/OSHA 10 - 1 Credits
- AVC112 - Blueprint Reading - 2 Credits

- MCD106 - Precision Measuring - 2 Credits
- MCD210 - Advanced Measuring - 3 Credits
- TFF120 - Metrology - 4 Credits
  OR MMG140 - Metrology - 4 Credits
- PDV115 - Work Ethics - 2 Credits

Entry Requirements

- Be 16 years of age or older,
- Completion of application and related procedures

Degree Maps

Degree Map Name
Quality Assurance Inspection, TC
Total Degree Map Credits
24
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	11	0

Requirement Select

- QAI135 - Quality Assurance Orientation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select

- QAI201 - Geometric Dimensioning & Tolerance

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- AVC110 - Safety/OSHA 10

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select

- AVC112 - Blueprint Reading

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select

- MCD106 - Precision Measuring

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select

- PDV115 - Work Ethics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	13	4

Requirement Select

- QAI145 - Quality Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- QAI155 - Quality Documentation and Traceability

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- MCD210 - Advanced Measuring

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- Quality Assurance Inspection Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	4
Contact Hours	4
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

TC-ROBOTICS - Robotics, TC

Overview

Department(s)
Manufacturing

Degree Designation
Technical Certificate

Catalog Full Description
The WSU Tech Robotics program provides graduates with industry aligned courses designed to prepare them for entry into the highly technical field of Industrial and Collaborative Robotics. The program is a joint effort between WSU Tech and Wichita State Universitys National Institute for Aviation Research (NIAR). All students will experience a core curriculum focused on the foundational skills of robotics including usage, programming, design for application and implementation of robotic equipment and automated equipment to support manufacturing automation in areas such as welding, advanced coatings, and material handling. Working with industry recognized visual programming environments and a state-of-the-art robotics laboratory, students will apply cutting edge robotics research and electronic and mechanical systems to support the Industrial Internet of Things (IIoT). Students will gain the skills that support the design, build, implementation and data collection of IIoT using electronic sensors, small computer hardware and applications to collect, translate and deliver data to analytical business systems. Students will learn to program Programable Logic Controllers (PLC's), communicate between PLC's and robots, set up HMI's (human machine interface) to control and monitor the process, and even explore new advancements in Smart Factory environments such as machine learning and AI.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Robotics, TC - $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.

Campus Location
WSU Tech Main Campus - National Center for Aviation Training (NCAT) - 4004 N. Webb Rd., Wichita, KS 67226

Requirements

Simple Requisites

Program Requirements

Robotics, TC
Type
Completion Requirement

Robotics Requirements

Complete ALL of the following Courses:

- ROB100 - Introduction to Robotics - 3 Credits
- ROB103 - Applied Robotics Lab I - 4 Credits
- ROB104 - Robotics Simulation - 2 Credits
- ROB106 - Robotics Controller Maint - 1 Credits
- ROB115 - Intro to Programming Robots - 4 Credits
- ROB118 - Basic Circuits - 3 Credits
- ROB120 - IoT: Internet of Things - 3 Credits
- ROB124 - Robotic Navigation - 2 Credits
- ROB128 - Basic PLC - 3 Credits

- ROB130 - IoT: Connected Things - 3 Credits
- ROB134 - Robotic Perception & Manipulat - 4 Credits
- ROB138 - Advanced PLC - 3 Credits
- ROB140 - IoT: Big Data Analytics - 3 Credits
- ROB145 - Applied Robotics Lab II - 2 Credits

Entry Requirements
Be 16 year of age or older

Degree Maps

Degree Map Name
Robotics, TC
Total Degree Map Credits
40
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	9	0

Requirement Select
- ROB100 - Introduction to Robotics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- ROB118 - Basic Circuits

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- ROB128 - Basic PLC

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	9	0

Requirement Select
- ROB115 - Introduction to Programming Robots in ROS

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select
- ROB124 - Robotic Navigation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- ROB138 - Advanced PLC

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	6	0

Requirement Select
- ROB120 - IoT Fundamentals: Introduction to the Internet of Things

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- ROB130 - IoT Fundamentals: Connected Things

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	12	0

Requirement Select
- ROB103 - Applied Robotics Lab I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select
- ROB104 - Robotics Simulation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- ROB106 - Robotics Controller Maintenance

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- ROB140 - IoT Fundamentals: Big Data Analytics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- ROB145 - Applied Robotics Lab II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	4	0

Requirement Select
- ROB134 - Robotic Perception and Manipulation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

TC-SHMTL_ASM - Aviation Sheetmetal Assembly, TC

Overview

Department(s)
Aviation

Degree Designation
Technical Certificate

Catalog Full Description
Aerospace Manufacturing Technology associate degree program is a sequence of courses designed to produce an assembly mechanic with a well-rounded understanding of the aerospace industry and the depth and breadth of knowledge which comes from general education courses. In this program students will

complete a core set of foundational aviation courses and then move on to master the high demand skillset associated with an Aerospace Assembly Mechanic. The coursework will prepare students to complete the certification for Aerospace Core and Aerospace Assembly Mechanic endorsed by the National Association of Manufacturers (NAM).

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Aviation Sheetmetal Assembly $4,420.00

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.

Campus Location
WSU Tech Main Campus - National Center for Aviation Training (NCAT) - 4004 N. Webb Rd., Wichita, KS 67226

Requirements

Simple Requisites

Program Requirements

Aviation Sheetmetal Assembly CBE
Type
Completion Requirement

Aviation Sheetmetal Assembly CBE Requirements

Complete ALL of the following Courses:

- AER150 - Assembly Overview I - 3 Credits
- AER157 - Advanced Assembly - 3 Credits
- AVC104 - Quality Control Concepts - 1 Credits
- AVC110 - Safety/OSHA 10 - 1 Credits
- AVC112 - Blueprint Reading - 2 Credits
- AVC117 - Hand & Power Tools - 4 Credits
- AVC137 - Precision Measuring - 2 Credits
- AVC140 - Electrical Bonding & Grounding - 1 Credits

Aviation Sheetmetal Assembly
Type
Completion Requirement

Aviation Sheetmetal Assembly

Complete ALL of the following Courses:

- AER115 - Aerostructures Assembly - 6 Credits
- AVC117 - Hand & Power Tools - 4 Credits
- AVC127 - Aviation Assembly Core - 7 Credits

Entry Requirements
Be 18 years of age or older, Show documentation of high school graduation or satisfaction of high school equivalency prior to graduating from the program, Students currently enrolled in high school must have completed or be enrolled in high school algebra at their base school

Degree Maps

Degree Map Name
Aviation Sheetmetal Assembly-CBE, TC
Total Degree Map Credits
17
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	17	0

Requirement Select

- AER150 - Assembly Overview I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select

- AER157 - Advanced Assembly

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select

- AVC104 - Quality Control Concepts

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select

- AVC110 - Safety/OSHA 10

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- AVC112 - Blueprint Reading

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- AVC117 - Hand & Power Tools

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- AVC137 - Precision Measuring

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select
- AVC140 - Electrical Bonding & Grounding

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Degree Map Name
Aviation Sheetmetal Assembly, TC
Total Degree Map Credits
17
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	17	0

Requirement Select
- AER115 - Aerostructures Assembly

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	165
Clinical	-
Criticality	No

Requirement Select
- AVC117 - Hand & Power Tools

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- AVC127 - Aviation Assembly Core

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	120
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

TC-TOOL_FIX - Tooling and Fixture Fabrication, TC

Overview

Department(s)
Aviation

Degree Designation
Technical Certificate

Catalog Full Description
The Tooling and Fixture Fabrication Program offers a multidisciplinary degree providing students with the knowledge and practical skills to become a tool and jig builder in multiple manufacturing environments. This program follows an apprenticeship model which blends theory-based classroom/lab instruction with on the job experience. Each week the students will have the opportunity to apply what they learn in the state-of-the-art labs and classrooms at the National Center for Aviation Training to manufacture aircraft at local aerospace organizations. The technical courses will include mechanical design, aviation/aerospace manufacturing, welding, machining, and electronics.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Tooling and Fixture Fabrication, TC - $13,865.00

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.

Campus Location
WSU Tech Main Campus - National Center for Aviation Training (NCAT) - 4004 N. Webb Rd., Wichita, KS 67226

Requirements

Simple Requisites

Program Requirements

Tooling and Fixture Fabrication, TC
Type
Completion Requirement

Tooling and Fixture Fabrication Requirements

Complete ALL of the following Courses:

- TFF108 - Welding Safety & Orientation - 1 Credits
- TFF110 - Tap and Die - 1 Credits
- TFF112 - Print Reading - 3 Credits
- TFF114 - Introduction to CAD I - 3 Credits
- TFF115 - Hand and Power Tools - 1 Credits
- TFF117 - Precision Measuring - 2 Credits
- TFF118 - Welding Applications - 4 Credits
- TFF120 - Metrology - 4 Credits
- TFF125 - Tooling Capstone - 4 Credits
- TFF130 - Machining I - 3 Credits
- TFF135 - Direct & Alternating Current - 4 Credits
- TFF140 - Machining II - 3 Credits
- TFF150 - Fixture Construction - 5 Credits
  OR TFF155 - Tool and Fixture Fab Capstone - 5 Credits
- AER106 - Aerospace Mfg Tooling Orientat - 1 Credits
- AER150 - Assembly Overview I - 3 Credits
- AVC103 - Geometric Dimension & Toleran - 1 Credits
- AVC104 - Quality Control Concepts - 1 Credits
- AVC107 - Fundamentals for Aerospace Mfg - 1 Credits
- AVC110 - Safety/OSHA 10 - 1 Credits
- AVC150 - Human Factors - 1 Credits
- AVC170 - Conflict Resolution - 1 Credits
- CAT101 - CATIA Part Design & Sketcher - 4 Credits

Entry Requirements

- Be 16 years of age or older
- Complete all admissions documents

Degree Maps

Degree Map Name
Tooling and Fixture Fabrication, TC
Total Degree Map Credits
54
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	15	0

Requirement Select

- TFF110 - Tap and Die

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select

- TFF112 - Print Reading

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select

- TFF115 - Hand and Power Tools for Aerospace Tooling

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select

- TFF117 - Precision Measuring

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Requirement Select

- ACP106 - Aerospace Coatings & Materials

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select

- AVC104 - Quality Control Concepts

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select

- AVC107 - Fundamentals for Aerospace Manufacturing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select

- AVC110 - Safety/OSHA 10

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select

- AVC150 - Human Factors

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select

- AVC170 - Conflict Resolution

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	6	0

Requirement Select

- TFF130 - Machining I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- TFF140 - Machining II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	5	0

Requirement Select
- TFF108 - Welding Safety & Orientation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- TFF118 - Welding Applications

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	8	0

Requirement Select
- TFF114 - Introduction to CAD I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- AVC103 - Geometric Dimensioning & Tolerancing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- CAT101 - CATIA Part Design & Sketcher

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	20	0

Requirement Select
- TFF120 - Metrology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- TFF125 - Tooling Capstone

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	120
Clinical	-
Criticality	No

Requirement Select
- TFF135 - Direct & Alternating Current

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Requirement Select
- TFF150 - Fixture Construction

OR
- TFF155 - Tooling and Fixture Fabrication Capstone

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	225
Clinical	-
Criticality	No

Requirement Select
- AER150 - Assembly Overview I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	90
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

TC-UMAA_NND - Unmanned Aircraft Systems, Cert A

Overview

Department(s)
Aviation

Degree Designation
Technical Certificate

Catalog Full Description
Unmanned Aircraft Systems (Drones) are revolutionizing data collection operations in multi sectors of the US economy including commercial industries, scientific research and local/state and Federal government entities. In this program students will learn the skills and knowledge to design, program and operate an effective UAS mission. Students will obtain a Part 107 license and rating while developing a safety - oriented mindset through risk management and situational awareness. Topics include GIS, Multirotor, UAS Ground School, Beyond Line of Site (BLoS) drone preparation, and FixedWing Flight.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Unmanned Aircraft Systems, Technical Certificate A - $7,375.00

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

Campus Location
WSU Tech Main Campus - National Center for Aviation Training (NCAT) - 4004 N. Webb Rd., Wichita, KS 67226

Requirements

Simple Requisites

Program Requirements

Unmanned Aircraft Systems, Technical Certificate A
Type
Completion Requirement

Unmanned Aircraft Systems, Technical Certificate A, Requirements

Complete ALL of the following Courses:
- UAS180 - Ground School - 4 Credits
- UAS185 - Multi-Rotor Flight - 4 Credits
- UAS190 - Videography - 4 Credits
- UAS220 - UAS Multi-Rotor Maintenance - 6 Credits
- UAS225 - Post-Processing - 3 Credits
- UAS235 - Small Business Fundamentals - 3 Credits

Entry Requirements
Be 16 years of age or older

Degree Maps

Degree Map Name
Unmanned Aircraft Systems, Technical Certificate A
Total Degree Map Credits
24
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	12	0

Requirement Select
- UAS180 - Ground School

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- UAS185 - Multi-Rotor Flight

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- UAS190 - Videography

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	12	0

Requirement Select
- UAS220 - UAS Multi-Rotor Maintenance

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select
- UAS225 - Post-Processing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- UAS235 - UAS Small Business Fundamentals

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

TC-WELDING - Welding Technology Level 2, TC

Overview

Department(s)
Manufacturing

Degree Designation
Technical Certificate

Catalog Full Description
This program allows students to gain knowledge and skills in cutting, arc welding, MIG and TIG welding and provides some exposure to oxy-acetylene cutting and welding. Program includes classroom and lab instruction in safety, blueprint reading and sketching, tools and materials used in the various forms of welding, machine adjustments and rod selection, skill requirements for various welding positions, weld testing and qualifications, fabrication and layout of various welding projects. Students will have the opportunity to complete one or more American Welding qualification tests. The WSU Tech Welding Technology program is aligned with the National Center for Education Statistics CIP code 48.0508: Welding Technology/Welder prepares individuals to apply technical knowledge and skills to join or cut metal surfaces. Includes instruction in arc welding, resistance welding, brazing and soldering, cutting, high-energy beam welding and cutting, solid state welding, ferrous and non-ferrous materials, oxidation-reduction reactions, welding metallurgy, welding processes and heat treating, structural design, safety, and applicable codes and standards.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Welding Technology, Level 2 -$13,213.00

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.

Campus Location
WSU Tech City Center – 301 S. Grove, Wichita, KS 67211, WSU Tech Main Campus - National Center for Aviation Training (NCAT) - 4004 N. Webb Rd., Wichita, KS 67226, CTEC + WSU Tech – 1301 E. 27th Terrace, Pittsburg, KS 66762

Requirements

Simple Requisites

Program Requirements

Welding Technology, TC - Level 2
Type
Completion Requirement

Welding Technology Level 2 Requirements

Complete ALL of the following Courses:

- CWG103 - Blue Print Reading for Welders - 3 Credits
- CWG105 - Welding Safety & Orientation - 1 Credits
- CWG115 - SMAW - 3 Credits
- CWG116 - SMAW II - 4 Credits
- CWG120 - GMAW - 3 Credits
- CWG121 - GMAW II - 4 Credits
- CWG125 - GTAW - 3 Credits
- CWG126 - GTAW II - 4 Credits
- CWG135 - Measurement and Specification - 1 Credits
- CWG141 - Oxy-Acetylene Weld & Cutting - 2 Credits
- CWG145 - Fabrication & Design - 2 Credits
- CWG149 - Materials & Testing - 2 Credits
- AVC110 - Safety/OSHA 10 - 1 Credits
- PDV115 - Work Ethics - 2 Credits

Welding Technology Level 2 Technical Requirements

Earn at least 4 credits from the following:

- CWG110 - Welding Applications - 4 Credits
- CWG130 - Robotic Welding - 4 Credits
- CWG155 - Flux Cored Arc Welding - 4 Credits
- CWG160 - Welding Internship - 4 Credits
- CWG242 - SMAW D1.1 Qualification - 4 Credits
- CWG243 - GMAW D1.1 Qualification - 4 Credits
- MCD101 - Introduction to CAD I - 3 Credits
- MCD102 - Introduction to CAD II - 2 Credits

Entry Requirements
Be 16 years of age or older

Degree Maps

Degree Map Name
Welding Technology Level 2
Total Degree Map Credits
39
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	17	0

Requirement Select
- CWG103 - Blue Print Reading for Welders

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- CWG105 - Welding Safety & Orientation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- CWG120 - GMAW

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- CWG121 - GMAW II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select
- CWG135 - Measurement and Specification

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- CWG141 - Oxy Acetylene Welding & Cutting

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- AVC110 - Safety/OSHA 10

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- PDV115 - Work Ethics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	22	4

Requirement Select
- CWG115 - SMAW

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- CWG116 - SMAW II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select
- CWG125 - GTAW

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	75
Clinical	-
Criticality	No

Requirement Select
- CWG126 - GTAW II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	105
Clinical	-
Criticality	No

Requirement Select
- CWG145 - Fabrication & Design

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- CWG149 - Materials & Testing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- Welding Technology Level 2 Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	4
Contact Hours	4
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

TC-WELD_FAST - Welding Technology Level 1, TC

Overview

Department(s)
Manufacturing

Degree Designation
Technical Certificate

Catalog Full Description
This program allows students to gain knowledge and skills in cutting, arc welding, MIG and TIG welding and provides some exposure to oxy-acetylene cutting and welding. Program includes classroom and lab instruction in safety, blueprint reading and sketching, tools and materials used in the various forms of welding, machine adjustments and rod selection, skill requirements for various welding positions, weld testing and qualifications, fabrication and layout of various welding projects. Students will have the opportunity to complete one or more American Welding qualification tests. The WSU Tech Welding Technology program is aligned with the National Center for Education Statistics CIP code 48.0508: Welding Technology/Welder prepares individuals to apply technical knowledge and skills to join or cut metal surfaces. Includes instruction in arc welding, resistance welding, brazing and soldering, cutting, high-energy beam welding and cutting, solid state welding, ferrous and non-ferrous materials, oxidation-reduction reactions, welding metallurgy, welding processes and heat treating, structural design, safety, and applicable codes and standards.

Program Level
Undergraduate

Effective Start Term
Fall 2025

Program Costs
Welding Technology Level 1, TC - 5,805.00

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.

Campus Location
WSU Tech City Center – 301 S. Grove, Wichita, KS 67211, WSU Tech Main Campus - National Center for Aviation Training (NCAT) - 4004 N. Webb Rd., Wichita, KS 67226, CTEC + WSU Tech – 1301 E. 27th Terrace, Pittsburg, KS 66762

Requirements

Simple Requisites

Program Requirements

Welding Technology Level 1
Type
Completion Requirement

Welding Technology Level 1 Requirements

Complete ALL of the following Courses:
- CWG103 - Blue Print Reading for Welders - 3 Credits
- CWG105 - Welding Safety & Orientation - 1 Credits
- CWG135 - Measurement and Specification - 1 Credits
- CWG141 - Oxy-Acetylene Weld & Cutting - 2 Credits
- AVC110 - Safety/OSHA 10 - 1 Credits
- PDV115 - Work Ethics - 2 Credits

Welding Technology Level 1 Elective

Earn at least 7 credits from the following:
- CWG115 - SMAW - 3 Credits
- CWG116 - SMAW II - 4 Credits
- CWG120 - GMAW - 3 Credits
- CWG121 - GMAW II - 4 Credits

Entry Requirements
Be 16 years of age or older

Degree Maps

Degree Map Name
Welding Technology, TC (Level 1)
Total Degree Map Credits
17
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	17	7

Requirement Select
- CWG103 - Blue Print Reading for Welders

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	60
Clinical	-
Criticality	No

Requirement Select
- CWG105 - Welding Safety & Orientation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- CWG135 - Measurement and Specification

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- CWG141 - Oxy Acetylene Welding & Cutting

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	45
Clinical	-
Criticality	No

Requirement Select
- Welding Technology Level 1 Elective

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	7
Contact Hours	7
Clinical	-
Criticality	No

Requirement Select
- AVC110 - Safety/OSHA 10

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	15
Clinical	-
Criticality	No

Requirement Select
- PDV115 - Work Ethics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	30
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

All Courses

ACC130 - Managerial Accounting

Overview

Department
Professional Studies

Course 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.

Academic Level (Course Level)
Undergraduate

Instructional Methods
Hybrid

Effective Start Term
Fall 2025

Credits

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
45

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
45

Course Learning Outcomes

Name	Objective
Explain the difference between managerial and financial accounting	Explain the differences between managerial and financial accounting', Describe the value chain and its usefulness in analyzing a business', Identify and explain the management tools used for continuous improvement', Explain the balanced scorecard and its relationship to performance measures and prepare an analysis on nonfinancial data Identify the standards of ethical conduct for management accountants
Evaluate the ethical dimensions of managerial accounting	Explain how to take into account the interests of external parties customers owners suppliers governmental agencies and the local community when they make decisions', Identify and explain when ethical conflicts arise what responsibilities do management accountants have to help managers balance those interests', Explain guidance provided by the Institute of Management Accountants which has issued standards of ethical conduct for practitioners of managerial accounting and financial management

Name	Objective
Apply management accounting techniques to planning and control of operations including: Master Budget and Capital Budget, Variance Analysis, Cost Volume Profit Analysis, and Cost Allocations	Define budgeting and describe how it relates to the concepts of comparability and understandability', Identify the elements of a master budget in different types of organizations and the guidelines forpreparing budgets', Prepare the operating budgets that support the financial budgets', Prepare a budgeted income statement a cash budget and a budgeted balance sheet', Explain why budgeting is essential to the management process', Define budgeting and explain managements role in the budgeting process', Define standard costs and explain why standard costing is useful', Compute standard unit costs and describe the role of flexible budgets in variance analysis tocontrol costs', Compute and analyze direct materials variances', Compute and analyze direct labor variances', Compute and analyze overhead variances', Explain how variances are used to evaluate a businesss performance', Define cost behavior and identify variable fixed and mixed costs', Separate mixed costs into their variable and fixed components and prepare a contribution marginincome statement', Perform costvolumeprofit CVP analysis', Define breakeven point and use contribution margin to determine a companys breakeven pointfor multiple products', Discuss how managers use CVP analysis in the management process and how they can projectthe profitability of products and services', Describe how managers use information about costs in the management cycle', Explain how managers classify costs and how they use these cost classifications', Compare how service retail and manufacturing organizations report costs on their financialstatements and how they account for inventories', Describe the flow of costs through a manufacturers inventory accounts', Define product unit cost and compute the unit cost of a product or service', Define cost allocation and explain how cost objects cost pools and cost drivers are used toassign manufacturing overhead costs

Name	Objective
Interpret cost behaviors for decision making	Define cost behavior and explain how managers use this concept in the management cycle', Identify variable fixed and mixed costs and separate mixed costs into their variable and fixed components', Define the costvolumeprofit CVP analysis and discuss how managers use it as a tool for planning and control', Define breakeven point and use contribution margin to determine a companys breakeven point for multiple products', Use CVP analysis to project the profitability of products and services

Name	Objective
Communicate managerial accounting information in an appropriate format	Identify interpret explain the formulation of managerial accounting information which is aimed at helping managers within the organization make decisions', Compute and explain internally developed managerial accounting templates which are designed to provide timely information aimed at helping managers within the organization make decisions', Develop necessary communication skills needed to communicate about the changes results and the information pertaining to the managerial accounting information', Develop skills necessary to ensure that managerial accounting information being provided is accurate and in a format that explains the information in such a way that management with the organization can make decisions

Name	Objective
Track the flow of costs through the manufacturing process	Describe the process costing system identify the reason for its use and discuss its role in the management cycle', Explain the role of the Work in Process Inventory accounts in a process costing system', Define equivalent production and compute equivalent units', Prepare a process cost report using the first in first out costing and average costing methods', Evaluate operating performance using information about product cost

Name	Objective
Define, explain, and prepare costing systems for jobs and projects	Define the role that information about costs plays in management processes and explain why unit cost is important', Distinguish between the two basic types of product costing systems and identify the information each provides', Explain the cost flow in a manufacturers job order costing system', Prepare a job order cost card and compute a job orders product unit cost', Apply job order costing to a service organization and distinguish between job order costing and project costing

Name	Objective
Define, and explain how managers make short-run decisions with incremental analysis	Explain how managers make shortrun decisions', Define and perform incremental analysis for outsourcing decisions special order decisions segment profitability decisions sales mix decisions and sell or processfurther decisions

ACR112 - HVAC Fundamentals

Overview

Department
Applied Technologies

Course 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.

Academic Level (Course Level)
Undergraduate

Instructional Methods
Traditional

Effective Start Term
Fall 2025

Credits

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
105

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
15

Lab Hours

Lab Hours Min:
90

Course Learning Outcomes

Name	Objective
The student will be able to describe the regulatory issues	Describe the types of regulatory codes encountered in the HVAC trade

Name	Objective
The student will be able to describe the schedules/drawings	Identify the types of schedulesdrawings used in the HVAC trade

Name	Objective
The student will be able to demonstrate skills associated with refrigerant piping	State the precautions that must be taken when installing refrigerant piping', Select the right tubing for a job', Cut and bend copper tubing', Safely join tubing by using flare and compression fittings', Determine the kinds of hangers and supports needed for refrigerant piping', State the basic safety requirements for pressuretesting a system', Identify types of plastic pipe and state their uses', Cut and join lengths of plastic pipe', Demonstrate soldering and brazing techniques

Name	Objective
The student will be able to demonstrate skills associated with heat transfer	Explain how heat transfer principles occur in a cooling system demonstrating an understanding of the terms and concepts used in the refrigeration cycle', Calculate the temperature and pressure relationships at key points in the refrigeration cycle', Demonstrate the use of temperature and pressuremeasuring instruments to make readings at key points in the refrigeration cycle

Name	Objective
The student will be able to demonstrate skills associated with handling refrigerants	Identify commonly used refrigerants', Demonstrate the proper procedures for handling refrigerants', Demonstrate refrigerant leak detection procedures', Demonstrate refrigerant evacuation procedures', Demonstrate refrigerant recovery procedures', Demonstrate refrigerant charging procedures

Name	Objective
The student will be able to demonstrate skills associated with cooling systems	Identify the major components of a cooling system and explain how each type works', Identify the major accessories available for cooling systems and explain how each works', Identify the control devices used in cooling systems and explain how each works', Install one or more of the following HVAC systems and their components 1 Residential 2 Commercial andor 3 Industrial

Name	Objective
The student will be able to Identify career paths available in the HVAC/R trade	Identify career and apprentice opportunities in the HVAC trade

ACR121 - Heating System Fundamentals

Overview

Department
Applied Technologies

Course 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.

Academic Level (Course Level)
Undergraduate

Effective Start Term
Fall 2024

Credits

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
75

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
15

Lab Hours

Lab Hours Min:
60

Course Learning Outcomes

Name	Objective
Students will demonstrate effective safety standards associated with heating systems	Apply trade math to daily applications', Interpret mechanical drawings symbols and their applications', Recognize the different fuel types used in various furnaces', Indentify different efficiency of furnaces', Check gas pressures', Inspect and perform standard seasonal maintenance and tuneup', List sequence of operation', Assess air flow', Measure temperature split', Check and adjust thermostat heat anticipators', Perform start up procedures', Design and install venting for fossil fuel appliances', Design and install heating equipment installations', Explain furnace design and functions', Introduce commercial airside and hydronic systems including various types of boilers piping chilledwater systems and thier components', Measurement and control of air temperature humidity pressure and velocity', Maintenance and repairs of various HVAC systems', Identify the types of ferrous metal pipes', Measure the sizes of ferrous metal pipes', Identify the common malleable iron fittings', Cut ream and thread ferrous metal pipe', Join lengths of threaded pipe together and install fittings', Describe the main points to consider when installing pipe runs', Describe the methods used to join grooved piping', List the effects of changing air flow', Evaluate combustion', Identify residential codes related to the installation of HVAC equipment', Demonstrate an understanding of psychrometrics

Name	Objective
Student will be able to troubleshoot basic issues associated with heating systems	Introduce troubleshooting of heating cooling and heat pump systems', Introduce troubleshooting of control circuits electronic controls and accessories', Introduce troubleshooting of air quality and energy conservation equipment

ACR126 - EPA 608

Overview

Department
Applied Technologies

Course 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).

Academic Level (Course Level)
Undergraduate

Effective Start Term
Fall 2025

Credits

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
15

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
15

Course Learning Outcomes

Name	Objective
Students will be able to: Identify the concepts associated with EPA 608 standards	Identify the legal handling of refrigerants', Identify cooling equipment components and basic refrigeration theory', Explain ozone depletion and its consequences', Describe the Clean Air Act No Venting Law', Identify EPA regulations', List service procedures', Identify substitute refrigerants and oils', Describe general safety procedures', Describe refrigerant cylinder safety procedures', Identify equipment service requirements recovery procedures and safety procedures for Type I technicians small appliances Type II technicians high pressure systems and Type III technician low pressure systems

ALH101 - Medical Terminology

Overview

Department
General Education

Course 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.

Academic Level (Course Level)
Undergraduate

Effective Start Term
Fall 2025

Credits

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
45

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
45

Course Learning Outcomes

Name	Objective
Interpret medical terms based on word elements	Explain the method of which basic elements form medical words', Apply knowledge of operative diagnostic and symptomatic suffixes', Apply knowledge of adjective diminutive and noun suffixes and the rules for changing singular words to plural words', Apply knowledge of prefixes of position number and measurement negation and direction', Recognize medical words by analyzing their Greek and Latin parts

Name	Objective
Identify and define medical word roots, prefixes and suffixes utilized in building medical terms	Identify combining forms suffixes and prefixes related to body structure

Name	Objective
Apply medical terms in the proper context	Demonstrate a functional use of medical terminology', Recall acceptable abbreviations and their meanings for Medical Terms and phrases

Name	Objective
Communicate and spell medical terms accurately	Spell and pronounce medical words correctly', Use a medical dictionary

Name	Objective
Identify terms and abbreviations related to basic anatomy, physiology and pathology	Demonstrate an understanding of medical terms associated with pathology', Demonstrate an understanding of body imaging by defining terms associated with radiology computed tomography magnetic resonance imaging and ultrasonography', Describe and define all major systems in the body

Name	Objective
Describe organization components of the body, directional terms, anatomic planes, regions and quadrants	List and define the levels of organization in the human body', Define and identify four body planes', List two dorsal cavities and two ventral cavities and identify at least one organ within each cavity', List and locate nine abdominopelvic regions and the four quadrants of the same area', Define directional terms and be able to use them correctly

ALH105 - First Aid & CPR

Overview

Department
General Education

Course 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.

Academic Level (Course Level)
Undergraduate

Effective Start Term
Fall 2024

Credits

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
45

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
45

Course Learning Outcomes

Name	Objective
The student will be able to gain an understanding of personal skills and time management	Set priorities in which several tasks will be accomplished', Attend class regularly and arrive on time for class

Name	Objective
The student will be able to gain an ability to more effectively interact with others	Speak effectively to give instructions for life saving and nonlife savings techniques', Stay abreast of the new techniques available

Name	Objective
The student will develop enhanced abilities to interact with others	Work in groups of two or more in performing skills

Name	Objective
Recognize an emergency, assess the scene and develop and appropriate plan of action	Able to help others who require basic emergency treatment', Set priorities in which several tasks will be accomplished', Attend class regularly and arrive on time for class

Name	Objective
Demonstrate the knowledge and skills necessary to provide emergency assistance in cases such as chocking, rescue breathing, CPR and use of AED for adults, children, and infants	Perform lifesaving and non lifesaving techniques in case the need arises', Perform life threatening and nonlife threatening techniques on infants children and adults

Name	Objective
Demonstrate and explain how to provide care for life-threating emergencies including breathing, shock, head and spinal injuries, sudden illness, stroke, soft tissues and musculoskeletal injuries	Speak effectively to give instruction for life saving and nonlife savings techniques

Name	Objective
Identify and describe how to respond effectively to a variety of environmental, man-made and/or national security emergencies	Able to communicate and carry out effective emergency responsive plans in the event of manmade or natural disasters', Able to instruct individuals on how to respond in the event of a manmade or natural disaster

ALH110 - Principles of Nutrition

Overview

Department
General Education

Course 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.

Academic Level (Course Level)
Undergraduate

Effective Start Term
Fall 2025

Credits

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
45

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
45

Course Learning Outcomes

Name	Objective
Identify the six classes of nutrients and their sources	List the six classes of nutrition including which are organic and which are energy producing', Identify nutrient categories and sub categories', Explain the role of carbohydrates protein and fats in the body', Explain the importance of water and fluid balance in the body', Identify the major and trace minerals of the body their functions and sources', Identify the fatsoluble and watersoluble vitamins their functions and sources', Estimate nutrients in foods', Understand personal needs for nutrients and the combination of foods to meet the needs', Identify combinations of foods to meet individual needs', Set goals for meeting RDA of nutrients', Identify nutrient fallacies and facts', Identify and list characteristics of foodrelated illness and disorder', Compare and contrast various nutrition guidelines established by the FDA and USDA', Compare the positive health aspects of a vegetarian diet with those of a diet that includes meat and describe ways each diet can include adequate nutrients', Identify and evaluate personal nutrition standard and guidelines', Differentiate between those diseases that are strongly influenced by diet and those not responsive to nutrition', Distinguish valid nutrition information from misinformation', Identify foods to provide nutrients for disease prevention', Determine nutritional RDA needs to maximize disease prevention

Name	Objective
Demonstrate an understanding of the processes of digestion, absorption, and metabolism of nutrients	Identify and describe three factors necessary to ensure efficient circulation of fluids to all body cells', Differentiate between functions of glands and hormones', Differentiate between mechanical and chemical aspects of digestion', Identify the basic needs of cells and describe how cells are organized into tissues organs and systems', Describe the major functions of the cardiovascular hormonal nervous digestive and excretory systems', Discuss the mechanicalchemical digestive processes and the absorption transportation and storage of nutrients

Name	Objective
Employ available resources to make sound nutritional choices	Plan and analyze 24 hour Three day and Seven day nutrition journals to meet daily nutrient needs', Implement a variety of nutritional applications and software to plan and analyze individual nutrient intakes', Identify and evaluate personal nutrition standards and guidelines', Utilize Nutritiongov Choose My Plate USDA Healthgov and CDC websites as resources for evidencebased nutritionInformation', Distinguish valid information from misinformation', Compare and contrast various nutrition guidelines established by various food guides myPlate My Fitness Pal

Name	Objective
Explain energy balance and weight control as it relates to nutrition and wellness	Calculate individuals body mass index BMI', Calculate adequate energy needs', Compute nutrients received', Computer physical activities expended', Recommend action to bring nutrients and actives into balance', List and define the components of the bodys energy budget', Summarize the recommended strategies to promote weight control', Identify personal guidelines for regular physical activity', Define and describe eating disorders and explain the physical harm that results from these behaviors

Name	Objective
Describe nutritional needs throughout the lifespan	Compare and contrast nutrient needs for different age groups', Set goals or standards for health maintenance by nutritional standards', Determine specific activities to accomplish a task and order of procedures to accomplish the task', Explain how supply and demand of food impacts optimal health', Explain how lifestyles influence eating habitstrends', Recognize or identify the existence of a nutritional problem given a specific set of facts', Ask appropriate questions to identify or verify the existence of a problem', Enumerate the possible causes of a problem', Identify methods of eliminating the causes of a problem', Identify important information needed to solve a problem and generate alternative solutions to a problem', Select a solution that represent the best course of action to pursue', Assess and evaluate the effective effectiveness of the chosen solution', Research of problemconflict conditions identify interest of parties involved clarify the problem conflict resolve the problemconflict by a mutually agreeable solution evaluate the solution', Describe special nutritional needs of older adults and the suspected connections to better health', Discuss the strategies that can be used to reduce the risks of cardiovascular disease and hypertension', Describe the process by which cancer develops and explain known effects of food constituents on cancer development

Name	Objective
Recognize global food safety, security, and sustainability issues	Demonstrate food safety procedures', Identify errors in food preparation', Demonstrate proper safety measures', Analyze the role of chemicalsadditives in the food supply', Describe how microbial food poisoning can be prevented and indicate which foods are particularly troublesome', List major food processing techniques and explain the effect they have on the nutrient content of foods', List the arguments for and against the use of new food technologies', Examine US Foodways', Evaluate global nutrition

ART100 - Art Appreciation

Overview

Department
General Education

Course 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.

Academic Level (Course Level)
Undergraduate

Effective Start Term
Fall 2024

Credits

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
45

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
45

Course Learning Outcomes

Name
Demonstrate an understanding of the terminology and characteristics of visual expression.

Name	Objective
Critically interpret and analyze works of art in terms of form and content	Discuss form and content', List and apply the visual elements of design', Compare and contrast various approaches to style including representational abstract and non representational', Discuss and utilize formal elements subject matter symbols and concepts in relation to historical and cultural context to critically evaluate art

Name
Communicate knowledge of art practices, meaning, values, and methods relevant to diverse historical and cultural contexts.

Name
Participate in the current discourse of visual arts.

BIO150 - Human Anatomy & Physiology

Overview

Department
General Education

Course 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.

Academic Level (Course Level)
Undergraduate

Effective Start Term
Fall 2025

Credits

Credit Hours

Credit Hours Min:
5

Contact Hours

Contact Hours Min:
105

Billing Hours

Billing Hours Min:
5

Lecture Hours

Lecture Hours Min:
45

Lab Hours

Lab Hours Min:
60

Course Learning Outcomes

Name
Body Plan & Organization/Upon completion of this section the student will be able to demonstrate measurable understanding of descriptiveanatomical and directional terminology including the following topics: anatomical position, body planes, sections, body cavities & regions, directional terms, basic terminology, levels of organization, survey of body systems.

Name	Objective
Homeostasis/Upon completion of this section the student will be able to demonstrate measurable understanding of the basic concept of homeostasis and how homeostatic mechanisms apply to body systems including the following topics: general types of homeostatic mechanisms , examples of homeostatic mechanisms ,application of homeostatic mechanisms, predictions related to homeostatic imbalance, including disease states & disorders	HomeostasisUpon completion of this section the student will be able to demonstrate measurable understanding of the basic concept of homeostasis and how homeostatic mechanisms apply to body systems including the following topics general types of homeostatic mechanisms examples of homeostatic mechanisms application of homeostatic mechanisms predictions related to homeostatic imbalance including disease states disorders

Name	Objective
Chemistry & Cell Biology Review/ Upon completion of this section the student will be able to demonstrate measurable understanding of basic chemistry and cellular structures and function, including the following topics: atoms & molecules ,chemical bonding ,inorganic compounds/ solutions (including the concept of pH) ,organic compounds ,energy transfer using ATP, intracellular organization of nucleus and cytoplasm, membrane structure & function, mechanisms for movement of materials across cellular membranes , organelles, protein synthesis, cellular respiration (introduction) , somatic cell division (mitosis & cytokinesis), reproductive cell division, application of homeostatic mechanisms ,predictions related to homeostatic imbalance, including disease states and disorders	Chemistry Cell Biology ReviewUpon completion of this section the student will be able to demonstrate measurable understanding of basic chemistry and cellular structures and function including the following topics atoms molecules chemical bonding inorganic compoundssolutions including the concept of pH organic compounds energy transfer using ATP intracellular organization of nucleus and cytoplasm membrane structure function mechanisms for movement of materials across cellular membranes organelles protein synthesis cellular respiration introduction somatic cell division mitosis cytokinesis reproductive cell division application of homeostatic mechanisms predictions related to homeostatic imbalance including disease states and disorders

Name	Objective
Histology/Upon completion of this section the student will be able to demonstrate measurable understanding of the basic tissues of the body, their location and functions, including the following topics: overview of histology & tissue types, microscopic anatomy, location, & functional roles of epithelial, connective, muscular and nervous tissues, membranes (mucous, serous, cutaneous & synovial), glands (exocrine & endocrine), tissue injury & repair	HistologyUpon completion of this section the student will be able to demonstrate measurable understanding of the basic tissues of the body their location and functions including the following topics overview of histology tissue types microscopic anatomy location functional roles of epithelial connective muscular and nervous tissues membranes mucous serous cutaneous synovial glands exocrine endocrine tissue injury repair

Name	Objective
Integumentary System/ Upon completion of this section the student will be able to demonstrate measurable understanding of major gross and microscopic anatomical components of the integumentary system and describe the functions of the system, including the following topics: general functions of the skin & the subcutaneous layer, gross & microscopic anatomy of the skin, roles of the specific tissue layers of the skin & subcutaneous layer, anatomy & functional roles of accessory structures, application of homeostatic mechanisms , predictions related to homeostatic imbalance, including disease states & disorders	Integumentary System Upon completion of this section the student will be able to demonstrate measurable understanding of major gross and microscopic anatomical components of the integumentary system and describe the functions of the system including the following topics general functions of the skin the subcutaneous layer gross microscopic anatomy of the skin roles of the specific tissue layers of the skin subcutaneous layer anatomy functional roles of accessory structures application of homeostatic mechanisms predictions related to homeostatic imbalance including disease states disorders

Name	Objective
Skeletal System/Upon completion of this section the student will be able to demonstrate measurable understanding of major gross and microscopic anatomical components of the skeletal system and explain their functional roles in osteogenesis, repair, and body movement, including the following topics: general functions of bone & the skeletal system, structural components ,microscopic anatomy ,structural components, gross anatomy ,physiology of embryonic bone formation (ossification, osteogenesis, physiology of bone growth, repair & remodeling, organization of the skeletal system - gross anatomy of bones, classification, structure & function of joints (articulations), application of homeostatic mechanisms ,predictions related to homeostatic imbalance, including disease states & disorders	Skeletal SystemUpon completion of this section the student will be able to demonstrate measurable understanding of major gross and microscopic anatomical components of the skeletal system and explain their functional roles in osteogenesis repair and body movement including the following topics general functions of bone the skeletal system structural components microscopic anatomy structural components gross anatomy physiology of embryonic bone formation ossification osteogenesis physiology of bone growth repair remodeling organization of the skeletal system gross anatomy of bones classification structure function of joints articulations application of homeostatic mechanisms predictions related to homeostatic imbalance including disease states disorders

Name	Objective
. Muscular System/Upon completion of this section the student will be able to demonstrate measurable understanding of major gross and microscopic anatomical components of the muscular system and explain their functional roles in body movement, maintenance of posture, and heat production, including the following topics: general functions of muscle tissue , identification, general location, & comparative characteristics of skeletal, smooth, & cardiac muscle tissue, detailed gross & microscopic anatomy of skeletal muscle , physiology of skeletal muscle contraction ,skeletal muscle metabolism, principles & types of whole muscle contraction - nomenclature of skeletal muscles, location & function of skeletal muscles, group actions of skeletal muscles, lever systems, application of homeostatic mechanisms, predictions related to homeostatic imbalance, including disease states & disorders	Muscular SystemUpon completion of this section the student will be able to demonstrate measurable understanding of major gross and microscopic anatomical components of the muscular system and explain their functional roles in body movement maintenance of posture and heat production including the following topics general functions of muscle tissue identification general location comparative characteristics of skeletal smooth cardiac muscle tissue detailed gross microscopic anatomy of skeletal muscle physiology of skeletal muscle contraction skeletal muscle metabolism principles types of whole muscle contraction nomenclature of skeletal muscles location function of skeletal muscles group actions of skeletal muscles lever systems application of homeostatic mechanisms predictions related to homeostatic imbalance including disease states disorders

Name	Objective
Nervous System (part 1) /Upon completion of this section the student will be able to demonstrate measurable understanding of the major gross and microscopic anatomical components of the nervous system and explain their functional roles in communication, control, and integration, including the following topics: general functions of the nervous system, organization of the nervous system from both anatomical & functional perspectives ,gross & microscopic anatomy of the nerve tissue, neurophysiology, including mechanism of resting membrane potential, production of action potentials, & impulse transmission , neurotransmitters & their roles in synaptic transmission , sensory receptors & their roles , division, origin, & function of component parts of the brain - protective roles of the cranial bones, meninges, & cerebrospinal fluid, structure & function of cranial nerves ,anatomy of the spinal cord & spinal nerves	Nervous System part 1 Upon completion of this section the student will be able to demonstrate measurable understanding of the major gross and microscopic anatomical components of the nervous system and explain their functional roles in communication control and integration including the following topics general functions of the nervous system organization of the nervous system from both anatomical functional perspectives gross microscopic anatomy of the nerve tissue neurophysiology including mechanism of resting membrane potential production of action potentials impulse transmission neurotransmitters their roles in synaptic transmission sensory receptors their roles division origin function of component parts of the brain protective roles of the cranial bones meninges cerebrospinal fluid structure function of cranial nerves anatomy of the spinal cord spinal nerves

Name	Objective
Nervous System (part 2)/Upon completion of this section the student will be able to demonstrate measurable understanding of the major gross and microscopic anatomical components of the nervous system and explain their functional roles in communication, control, and integration, including the following topics: reflexes & their roles in nervous system function, physiology of sensory & motor pathways in the brain & spinal cord ,functions of the autonomic nervous system ,comparison of somatic & autonomic nervous systems, application of homeostatic mechanisms, predictions related to homeostatic imbalance, including disease states & disorders	Nervous System part 2Upon completion of this section the student will be able to demonstrate measurable understanding of the major gross and microscopic anatomical components of the nervous system and explain their functional roles in communication control and integration including the following topics reflexes their roles in nervous system function physiology of sensory motor pathways in the brain spinal cord functions of the autonomic nervous system comparison of somatic autonomic nervous systems application of homeostatic mechanisms predictions related to homeostatic imbalance including disease states disorders

Name	Objective
Special Senses (part 1) Upon completion of this section the student will be able to demonstrate measurable understanding of the major gross and microscopic anatomical components of the eye and ear and explain their functional roles in vision, hearing and equilibrium. Students should also be able to identify and locate the receptors responsible for olfaction and gustation and briefly describe the physiology of smell and taste, including the following topics. - gross & microscopic anatomy of the eye & ear - roles of specific tissues of the eye in vision - roles of specific tissues of the ear in hearing & equilibrium - olfactory receptors & their role in smell ,gustatory receptors & their role in taste	Special Senses part 1 Upon completion of this section the student will be able to demonstrate measurable understanding of the major gross and microscopic anatomical components of the eye and ear and explain their functional roles in vision hearing and equilibrium Students should also be able to identify and locate the receptors responsible for olfaction and gustation and briefly describe the physiology of smell and taste including the following topics gross microscopic anatomy of the eye ear roles of specific tissues of the eye in vision roles of specific tissues of the ear in hearing equilibrium olfactory receptors their role in smell gustatory receptors their role in taste

Name	Objective
Special Senses (part 2) Students should also be able to identify and locate the receptors responsible for olfaction and gustation and briefly describe the physiology of smell and taste, including the following topics: general gross & microscopic anatomy of hearing & accessory structures of the ear - roles of specific tissues of the ear in hearing - roles of the accessory structures - role of the ear in equilibrium - application of homeostatic mechanisms - predictions related to homeostatic imbalance, including disease states & disorders	Special Senses part 2 Students should also be able to identify and locate the receptors responsible for olfaction and gustation and briefly describe the physiology of smell and taste including the following topics general gross microscopic anatomy of hearing accessory structures of the ear roles of specific tissues of the ear in hearing roles of the accessory structures role of the ear in equilibrium application of homeostatic mechanisms predictions related to homeostatic imbalance including disease states disorders

Name	Objective
Endocrine System/Upon completion of this section the student will be able to demonstrate measurable understanding of the major gross and microscopic anatomical components of the endocrine system and explain the functional roles of their respective hormones in communication, control, and integration, including the following topics: general functions of the endocrine system ,chemical classification of hormones & mechanism of hormone actions at receptors ,control of hormone secretion ,control by the hypothalamus& pituitary gland, identity, source, secretory control, & functional roles of the major hormones produced by the body, local hormones (paracrines & autocrines) & growth factors - hormonal response to stress, application of homeostatic mechanisms, predictions related to homeostatic imbalance, including disease states & disorders	Endocrine SystemUpon completion of this section the student will be able to demonstrate measurable understanding of the major gross and microscopic anatomical components of the endocrine system and explain the functional roles of their respective hormones in communication control and integration including the following topics general functions of the endocrine system chemical classification of hormones mechanism of hormone actions at receptors control of hormone secretion control by the hypothalamus pituitary gland identity source secretory control functional roles of the major hormones produced by the body local hormones paracrines autocrines growth factors hormonal response to stress application of homeostatic mechanisms predictions related to homeostatic imbalance including disease states disorders

Name	Objective
Cardiovascular System (part 2) demonstrate measurable understanding of hemostasis, including coagulation of the blood - ABO & Rh blood grouping - gross & microscopic anatomy of the heart, including the conduction system ,physiology of cardiac muscle contraction , blood flow through the heart, conduction system of the heart & the electrocardiogram, cardiac cycle , regulation of cardiac output, stroke volume & heart rate - anatomy & functional roles of the different types of blood vessels, pattern of blood circulation throughout the body, including systemic, pulmonary, coronary, hepatic portal, & fetal circulations, blood pressure & its functional interrelationships with cardiac output, peripheral resistance, & hemodynamics , application of homeostatic mechanisms, predictions related to homeostatic imbalance, including disease states & disorders	Cardiovascular System part 2 demonstrate measurable understanding of hemostasis including coagulation of the blood ABO Rh blood grouping gross microscopic anatomy of the heart including the conduction system physiology of cardiac muscle contraction blood flow through the heart conduction system of the heart the electrocardiogram cardiac cycle regulation of cardiac output stroke volume heart rate anatomy functional roles of the different types of blood vessels pattern of blood circulation throughout the body including systemic pulmonary coronary hepatic portal fetal circulations blood pressure its functional interrelationships with cardiac output peripheral resistance hemodynamics application of homeostatic mechanisms predictions related to homeostatic imbalance including disease states disorders

Name	Objective
Cardiovascular System (Part 1) / Upon completion of this section the student will be able to demonstrate measurable understanding of the major gross and microscopic anatomical components of the cardiovascular system and explain their functional roles in transport and hemodynamics, including the following topics. Topics include: - general functions of the cardiovascular system - general functions of the cardiovascular system - composition of blood plasma - identity, microscopic anatomy, numbers, formation, & functional roles of the formed elements of the blood.	Cardiovascular System Part 1 Upon completion of this section the student will be able to demonstrate measurable understanding of the major gross and microscopic anatomical components of the cardiovascular system and explain their functional roles in transport and hemodynamics including the following topics Topics include general functions of the cardiovascular system general functions of the cardiovascular system composition of blood plasma identity microscopic anatomy numbers formation functional roles of the formed elements of the blood

Name	Objective
Lymphatic System & Immunity/ Upon completion of this section the student will be able to demonstrate measurable understanding of the major gross and microscopic anatomical components of the lymphatic system and explain their functional roles in fluid dynamics and immunity, including the following topics. - general functions of the lymphatic system - general functions of the lymphatic system - lymph & lymphatic vessels - lymphatic cells, tissues, & organs - introduction to innate (nonspecific) defenses & adaptive (specific) defenses - innate (nonspecific) defenses - overview of adaptive (specific) defenses - antigens & antigen processing - lymphocytes & their role in adaptive immunity - antibodies & their role in adaptive immunity - applied immunology - application of homeostatic mechanisms - predictions related to homeostatic imbalance, including disease states & disorders	Lymphatic System Immunity Upon completion of this section the student will be able to demonstrate measurable understanding of the major gross and microscopic anatomical components of the lymphatic system and explain their functional roles in fluid dynamics and immunity including the following topics general functions of the lymphatic system general functions of the lymphatic system lymph lymphatic vessels lymphatic cells tissues organs introduction to innate nonspecific defenses adaptive specific defenses innate nonspecific defenses overview of adaptive specific defenses antigens antigen processing lymphocytes their role in adaptive immunity antibodies their role in adaptive immunity applied immunology application of homeostatic mechanisms predictions related to homeostatic imbalance including disease states disorders

Name	Objective
Respiratory System/Upon completion of this section the student will be able to demonstrate measurable understanding of the major gross and microscopic anatomical components of the respiratory system and explain their functional roles in breathing/ ventilation and in the processes of external and internal respiration, including the following topics. - general functions of the respiratory system - gross & microscopic anatomy of the respiratory tract & related organs - mechanisms of pulmonary ventilation - pulmonary air volumes & capacities - mechanisms of gas exchange in lungs & tissues - mechanisms of gas transport in the blood - control of pulmonary ventilation - application of homeostatic mechanisms - predictions related to homeostatic imbalance, including disease states & Disorders	Respiratory SystemUpon completion of this section the student will be able to demonstrate measurable understanding of the major gross and microscopic anatomical components of the respiratory system and explain their functional roles in breathingventilation and in the processes of external and internal respiration including the following topics general functions of the respiratory system gross microscopic anatomy of the respiratory tract related organs mechanisms of pulmonary ventilation pulmonary air volumes capacities mechanisms of gas exchange in lungs tissues mechanisms of gas transport in the blood control of pulmonary ventilation application of homeostatic mechanisms predictions related to homeostatic imbalance including disease states Disorders

Name	Objective
Digestive System Upon completion of this section the student will be able to demonstrate measurable understanding of the major gross and microscopic anatomical components of the digestive system and explain their functional roles in digestion, absorption, excretion and elimination, including the following topics. - general functions of the digestive system - gross & microscopic anatomy of the alimentary canal - gross & microscopic anatomy of the accessory glands & organs - peritoneum & mesenteries - motility in the alimentary canal - mechanical & chemical processes of digestion - processes of absorption - hormonal & neural regulation of digestive processes - application of homeostatic mechanisms - predictions related to homeostatic imbalance, including disease states & disorders	Digestive System Upon completion of this section the student will be able to demonstrate measurable understanding of the major gross and microscopic anatomical components of the digestive system and explain their functional roles in digestion absorption excretion and elimination including the following topics general functions of the digestive system gross microscopic anatomy of the alimentary canal gross microscopic anatomy of the accessory glands organs peritoneum mesenteries motility in the alimentary canal mechanical chemical processes of digestion processes of absorption hormonal neural regulation of digestive processes application of homeostatic mechanisms predictions related to homeostatic imbalance including disease states disorders

Name	Objective
Metabolism /Upon completion of this section the student will be able to demonstrate measurable understanding of the functional relationship among cellular, tissue and organ level metabolism, the role nutrition plays in metabolism, and the mechanisms by which metabolic rate is regulated in the body, including the following topics. - nutrition - introduction to metabolism - cellular respiration & the catabolism & anabolism of carbohydrates, lipids, & proteins - metabolic roles of body organs - energy balance & thermoregulation - application of homeostatic mechanisms - predictions related to homeostatic imbalance, including disease states & disorders	Metabolism Upon completion of this section the student will be able to demonstrate measurable understanding of the functional relationship among cellular tissue and organ level metabolism the role nutrition plays in metabolism and the mechanisms by which metabolic rate is regulated in the body including the following topics nutrition introduction to metabolism cellular respiration the catabolism anabolism of carbohydrates lipids proteins metabolic roles of body organs energy balance thermoregulation application of homeostatic mechanisms predictions related to homeostatic imbalance including disease states disorders

Name	Objective
Urinary System/Upon completion of this section the student will be able to demonstrate measurable understanding of the major gross and microscopic anatomical components of the urinary system and explain their functional roles, including the following topics. - general functions of the urinary system - gross & microscopic anatomy of the urinary tract, including detailed histology of the nephron - functional processes of urine formation, including filtration, reabsorption, secretion, & excretion - factors regulating & altering urine volume & composition, including the renin- angiotensin system and the roles of aldosterone& antidiuretic hormone - endocrine activities of the kidneys, such as vitamin D activation & secretion of erythropoietin - innervation & control of the urinary bladder	Urinary SystemUpon completion of this section the student will be able to demonstrate measurable understanding of the major gross and microscopic anatomical components of the urinary system and explain their functional roles including the following topics general functions of the urinary system gross microscopic anatomy of the urinary tract including detailed histology of the nephron functional processes of urine formation including filtration reabsorption secretion excretion factors regulating altering urine volume composition including the renin angiotensin system and the roles of aldosterone antidiuretic hormone endocrine activities of the kidneys such as vitamin D activation secretion of erythropoietin innervation control of the urinary bladder

Name	Objective
Fluid/Electrolyte& Acid/Base Balance/	FluidElectrolyte AcidBase BalanceUpon completion of this section the student will be able to demonstrate measurable understanding of the physiology of the homeostatic mechanisms that control fluidelectrolyte and acidbase balance including the following topics regulation of water intake output description of the major fluid compartments including intracellular extracellular intravascular interstitial volume chemical composition of major compartment fluids movements between the major fluid compartments causal forces volumes electrolyte balance buffer systems their roles in acidbase balance role of the respiratory system in acidbase balance role of the urinary system in acidbase balance
Upon completion of this section the student will be able to demonstrate measurable understanding of the physiology of the homeostatic mechanisms that control fluid/ electrolyte and acid/base balance, including the following topics. - regulation of water intake & output - description of the major fluid compartments, including intracellular, extracellular, intravascular, & interstitial - volume & chemical composition of major compartment fluids - movements between the major fluid compartments, causal forces, volumes, & electrolyte balance - buffer systems & their roles in acid/base balance - role of the respiratory system in acid/base balance - role of the urinary system in acid/base balance	

Name	Objective
Reproductive Systems/Upon completion of this section the student will be able to demonstrate measurable understanding of the major gross and microscopic anatomical components of the reproductive system and explain their functional roles in reproduction and inheritance, including the following topics. - general functions of the male & female reproductive systems - gross & microscopic anatomy of the male & female reproductive systems - gametogenesis - specific roles of the female reproductive organs - specific roles of the female reproductive organs - regulation of reproductive functions - conception, pregnancy, & embryological & fetal development - parturition & labor - mammary gland anatomy & physiology Comments: Information contained in this section shall not exempt any institution	Reproductive SystemsUpon completion of this section the student will be able to demonstrate measurable understanding of the major gross and microscopic anatomical components of the reproductive system and explain their functional roles in reproduction and inheritance including the following topics general functions of the male female reproductive systems gross microscopic anatomy of the male female reproductive systems gametogenesis specific roles of the female reproductive organs specific roles of the female reproductive organs regulation of reproductive functions conception pregnancy embryological fetal development parturition labor mammary gland anatomy physiology Comments Information contained in this section shall not exempt any institution

BUS104 - Introduction to Business

Overview

Department
Professional Studies

Course 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.

Academic Level (Course Level)
Undergraduate

Effective Start Term
Fall 2025

Credits

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
45

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
45

Course Learning Outcomes

Name	Objective
Identify and define Accounting from academic and professional perspectives	Identify what an accounting system does', Identify the rules that an accountant follows', Identify key documents used in accounting
Identify and define Finance from academic and professional perspectives	Define a financial plan', Identify the elements of a financial plan', Identify a financial forecast', Recognize the importance of budgeting
Identify and define Marketing from academic and professional perspectives	Define the term marketing', Discuss the four Ps of marketing and the marketing mix', Discuss various product pricing strategies', Explain the concept of branding and brand equity

Name	Objective
Identify and define Management and Leadership from academic and professional perspectives	Explain the four functions of management and why the role of management is changing', Summarize the five steps of the control function of management', Illustrate the skills a manager must possess', Explain the organizational theories of Fayol and Weber', Define the term Scientific Management', Discuss Maslows view of needs and motivation', Differentiate the difference between Theory X Theory Y and Theory Z', Explain the factors involved in the expectancy theory', Summarize the six steps in planning human resources', Trace the six steps in appraising performance

Name	Objective
Identify and define Information Systems from academic and professional perspectives	Illustrate how the technological environment has affected business', Define information systems', Describe how information systems have affected business

Name	Objective
Identify and define Entrepreneurship from academic and professional perspectives	Compare the advantages of a sole proprietorship', Identify the various forms of business ownership', Explain why people are willing to take the risk of entrepreneurship', Analyze what it takes to start and run a small business', Outline the advantages that small businesses have in entering global markets

Name	Objective
Identify and define Economics from academic and professional perspectives	Examine how the economic environment and taxes affect business', Identify various ways that business can meet and beat competition', Explain how wealth is accumulated in an economy', Describe how the free market system works', Describe monetary policy and its importance to the economy

Name	Objective
Identify and define Supply Chain/ Operations Management from academic and professional perspectives	Define Supply Chain', Identify the elements of Supply Chain', Define Operations Management', Identify the elements of Operations Management

Name	Objective
Identify the role of ethics and social responsibility in business	Explain why legality is only the first step in behaving ethically', Describe managements role in setting ethical standards', Define social responsibilities

BUS121 - Business Communications

Overview

Department
Professional Studies

Course 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.

Academic Level (Course Level)
Undergraduate

Effective Start Term
Fall 2025

Credits

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
45

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
45

Course Learning Outcomes

Name
Analyze the audience to create messages to meet business communication and information needs in a variety of situations.

Name
Demonstrate care, courtesy, and convention in professional messages.

Name
Clearly organize information to allow an audience to quickly process the message.

Name
Construct concise and comprehensive messages.

Name
Locate, interpret, and present credible and relevant evidence from reliable sources.

BUS125 - Business Law

Overview

Department
Professional Studies

Course 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.

Academic Level (Course Level)
Undergraduate

Effective Start Term
Fall 2025

Credits

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
45

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
45

Course Learning Outcomes

Name
Describe American Law sources, the American court system and processes, and methods of alternative dispute resolution

Name
Recognize the relevance of ethical and legal considerations when making strategic business decisions

Name
Differentiate between negligence, intentional torts, and strict liability within tort law

Name
Identify contract elements and important characteristics of performance and breach

Name
Define and differentiate the fundamental principles of personal property, real property, and intellectual property

Name
Describe the nature and function of agency and employment law

Name
Define and differentiate the duties and potential liability of various business entities

BUS130 - Personal Finance

Overview

Department
Professional Studies

Course 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.

Academic Level (Course Level)
Undergraduate

Effective Start Term
Fall 2025

Credits

Credit Hours
Credit Hours Min:
3

Contact Hours
Contact Hours Min:
45

Billing Hours
Billing Hours Min:
3

Lecture Hours
Lecture Hours Min:
45

Course Learning Outcomes

Name	Objective
Explain personal financial planning, financial statements, time value of money, and budgets	Identify social and economic influences on personal financial goals and decisions', Develop personal financial goals', Assess personal and financial opportunity costs associated with financial decisions', Implement a plan for making personal financial and career decisions', Identify the main components of wise money management', Create a personal balance sheet and cash flow statement', Develop and implement a personal budget', Connect money management activities with saving for personal financial goals', Identify commonly used financial services', Compare the types of financial institutions', Assess various types of savings plans', Evaluate different types of payment methods

Name	Objective
Explain the benefits and potential costs of consumer credit	Analyze advantages and disadvantages of using consumer credit', Assess the types and sources of consumer credit', Determine whether you can afford a loan and how to apply for credit', Determine the cost of credit by calculating interest using various interest formulas', Develop a plan to protect your credit and manage your debts

Name	Objective
Evaluate housing needs, large purchases, and financing alternatives	Assess costs and benefits of renting', Implement the homebuying process', Determine costs associated with purchasing a home', Develop a strategy for selling a home', Identify types of risks and risk management', Assess the insurance coverage and policy types available to homeowners and renters', Analyze the factors that influence the amount of coverage and cost of home insurance', Evaluate factors that affect the cost of automobile insurance', Identify strategies for effective consumer buying', Implement a process for making consumer purchases', Describe steps to take to resolve consumer problems', Evaluate legal alternatives available to consumers

Name	Objective
Identify fundamental tax strategies	Identify the major taxes paid by people in our society', Calculate taxable income and the amount owed for federal income tax', Prepare a federal income tax return', Select appropriate tax strategies for various life situations

Name	Objective
Identify how insurance is used to manage risk	Recognize the importance of health insurance in financial planning', Analyze the costs and benefits of various types of health insurance coverage as well as major provisions in health insurance policy', Assess the tradeoffs of different health insurance plans', Evaluate the differences among health care plans offered by private companies and by the government', Explain the importance of disability income insurance in financial planning and identify its sources', Explain why the costs of health insurance and health care have been increasing', Define life insurance and determine your life insurance needs', Distinguish between the types of life insurance companies and analyze various life insurance policies these companies issue', Select important provisions in life insurance contracts and create a plan to buy life insurance', Recognize how annuities provide financial security

Name	Objective
Compare investment and retirement planning alternatives and strategies	Explain why you should establish an investment program', Describe how safety risk income growth and liquidity affect your investment program', Identify the factors that can reduce investment risk', Understand why investors purchase government bonds', Recognize why investors purchase corporate bonds', Evaluate bonds when making an investment', Identify the most important features of common and preferred stock', Explain how you can evaluate stock investments', Analyze the numerical measures that cause a stock to increase or decreases in value', Describe how stocks are bought and sold', Explain the trading techniques used by longterm investors and shortterm speculators', Describe the characteristics of mutual fund investment', Classify mutual funds by investment objective', Evaluate mutual funds', Describe how and why mutual funds are bought and sold

Name	Objective
Explain the estate planning process	Analyze current assets and liabilities for retirement and estimate retirement living costs', Determine planned retirement income and develop a balanced budget based on retirement income', Analyze the personal and legal aspects of estate planning', Distinguish among various types of wills and trusts

BUS140 - Principles of Marketing

Overview

Department
Professional Studies

Course 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.

Academic Level (Course Level)
Undergraduate

Effective Start Term
Fall 2025

Credits

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
45

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
45

Course Learning Outcomes

Name	Objective
The student will be able to discuss how to design and implement customer oriented marketing strategies	Understand the definition of Marketing', Understand the basic elements of marketing planning', Describe how the marketing environment effects marketing strategy', Understand how government regulations affect the marketing process', Identify ethical concepts and concerns in marketing', Describe the implications of social responsibility', Understand the four Ps of marketing', Understand the elements of a marketing plan', Describe basic strategies for Ecommerce', Describe the characteristics of online buyers and sellers

Name	Objective
The student will be able to discuss the various types of markets and customers available to a business	Understand the consumer decision making process', Recognize the psychological factors that affect buying', Identify the concepts of customer behavior and market segmentation', Describe how B2B marketing differs from consumer marketing', Identify the stages of the consumer buying process', Discuss the international marketing environment', Understand the benefits of free trade', Describe basic strategies for entering foreign markets

Name	Objective
The student will be able to discuss how to conduct market research and identify a target market	Understand the market research process', Understand how to differentiate the market into target markets', Understand demographic and psychographic segmentation', Understand basic sales forecasting', Describe strategies for reaching target markets', Understand the shift from transaction based to relationship marketing', Understand the importance of building customer relationships', Describe basic strategies for improving customer relationships

Name	Objective
The student will be able to analyze the various strategies for producing and pricing goods and services	Distinguish between goods and services', Describe the product life cycle', Understand the new product development process', Describe the functions of packaging', Understand product safety and liability concerns', Understand how to manage brands for a competitive advantage', Understand price elasticity concepts', Understand price pricing strategies', Understand the law regarding pricing strategy', Describe basic methods for determining price

BUS200 - Principles of Management

Overview

Department
Professional Studies

Course 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.

Academic Level (Course Level)
Undergraduate

Effective Start Term
Fall 2025

Credits

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
45

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
45

Course Learning Outcomes

Name	Objective
Discuss the evolution of management and the need to manage in a dynamic environment	Define managers and management, Describe the duties and responsibilities of the various levels of management, Explain management as a dynamic process, Explain the behavioral viewpoint contribution to management, Describe the systems viewpoint and the use of quantitative techniques to manage organizations, Describe the impact of the quality viewpoint on management.

Name	Objective
Discuss the environmental, global, entrepreneurial and ethical forces facing managers.	Define the role of the task environment and how it changes, Identify the five competitive forces that directly affect organizations in an industry, Describe the growing global economy, Describe the main strategies for international operations, Identify the competitive forces fostered by the recent major trade agreements, Explain why planning may help achieve organizational effectiveness, Differentiate the corporate, business, and functional levels of planning and strategies, Describe the essentials of the scenario, Delphi technique, and simulation forecasting aids, Explain the phases of team-based management by goals, Describe benchmarking and the Deming Cycle.

Name	Objective
Discuss the various planning and decision-making strategies available to managers.	State the importance of ethics for organizations and their employees, Discuss the standards and principles of utilitarian, moral rights, and justice models of ethics, Define decision making, State four preconditions for meaningful decision making, Apply goals to decision making, State the benefits and limitations of normative decision making, Explain break-even analysis, the payoff matrix, and Pareto analysis as aids to adaptive decision making.

Name	Objective
iscuss and analyze the various ways an organization can be organized.	Discuss the most common types of departmentalization, State the basic principles of coordination, State the difference between line and staff authority, Define organization design, Explain how different environments influence organization design, Describe the factors that affect organization design, Define human resources management and describe its role in an organization's strategy, Explain the components of a total compensation package.

Name	Objective
Discuss and implement dynamic leadership and motivational strategies.	Discuss the various approaches to work motivation, Discuss the characteristics of effective leaders, Discuss the various types of leadership, Discuss the organizational communication process, Describe challenges in organizational communication, Discuss the various types of work teams, Discuss strategies in managing work teams, Be able to diagnose the cause of poor team performanc

Name
Identify the historical perspectives of management theories and their application to contemporary management practices.

Name
Apply business ethics and social responsibility concepts and their importance in managerial decision making.

Name
Describe skills and competencies of effective managers.

Name
Evaluate the major functions of management.

Name
Analyze the internal and external factors that influence an organization.

Name
Describe the influence of globalization on organizations.

Name
Identify the historical perspectives of management theories and their application to contemporary management practices

CCP100 - Introductory Craft Skills

Overview

Department
Applied Technologies

Course 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 organizations. 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. Students will also become familiarized with basic blueprint terms, components and symbols.

Academic Level (Course Level)
Undergraduate

Effective Start Term
Fall 2025

Credits

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
45

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
45

Course Learning Outcomes

Name	Objective
Describe the construction industry	Define construction and summarize the current and future outlook for jobs', Identify some of constructions more prominent contributions in history
Explain the benefits of a construction career	Recognize and describe how construction careers make a difference in the community', Describe the financial and professional benefits of pursuing a construction career
Describe the typical career path for craft professionals.	Describe industry sectors and the progression path for construction careers', Identify different construction careers and the types of skills they require
Identify ways to pursue a career in the construction industry.	Explain the benefits of career and technical education programs', Describe the advantages of craft training programs and their relationship with apprenticeships', Summarize the path to a construction career through community colleges and universities
Explain the benefits of safety, the cost of workplace incidents, and ways to reduce related	Describe the types of workplace incidents along with physical and monetary impacts', Summarize the causes and consequences of common incidents', Explain how to recognize evaluate and control workplace hazards
Describe and demonstate common fall hazards and methods to prevent them.	Summarize the most common types of construction fall hazards', Describe components of effective fall arrest systems and how they prevent or halt falls', Explain how to use ladders and stairs safely
Recognize and understand how to avoid struck-by and caught-in/ caught-between hazards.	Describe struckby hazards and how to avoid them', Describe common caughtincaughtbetween hazards and steps that can prevent them
Identify common electrical hazards and how to avoid them	Summarize basic jobsite electrical safety guidelines', Explain the importance of disabling equipment as well as basic lockouttagout procedures
Associate personal protective equipment (PPE) with the hazards they reduce or eliminate	Explain how PPE is used to protect craftworkers from different types of injuries', Explain how respirators protect craftworkers from respiratory dangers
Describe safety practices used with other common job-site hazards.	List other types of hazards craftworkers may encounter', Describe common environmental hazards and how craftworkers should respond to them', Summarize hazards associated with hot work', Identify fire hazards and describe basic firefighting procedures', Name different types of confined spaces and how to avoid related hazards
Identify whole numbers and solve basic arithmetic problems with them.	List the key qualities of whole numbers and summarize their place values', Add and subtract whole numbers', Multiply and divide whole numbers
Name fraction types and calculate with fractions.	Define equivalent fractions and calculate their lowest common denominators', Define improper fractions and convert them into mixed numbers', Add and subtract fractions', Multiply and divide fractions
Identifyand calculate with decimals	List the key qualities of decimal numbers and summarize their place values', Add subtract multiply and divide decimal numbers', Convert between decimals fractions and percentages
Name the common length-measuring tools and use them to measure lengths accurately.	Describe English and metric rulers using them correctly to measure lengths', Describe English and metric measuring tapes using them correctly to measure lengths

Name	Objective
Name common hand tools and state how to use them.	Identify various hammers and demolition tools and explain how to use them', Describe chisels and punches and how they are used', Match screwdrivers to the appropriate hardware', Differentiate between nonadjustable adjustable and socket wrenches', Describe various types of pliers and explain how they are used

Name	Objective
Identify common measurement and layout tools and describe how to use them.	Explain how to use a variety of measuring tools', Define various types of levels and layout tools and indicate how they are used

Name	Objective
Identify and describe other hand tools common to shops and job sites	Differentiate between various handsaws and their designated applications', Identify common clamp designs', Explain how different files and utility knives are used with various materials', Describe shovels and picks and the tasks for which each one is best suited

Name	Objective
Identify and explain how to use various types of power drills and impact wrenches	Summarize basic power tool safety guidelines', Identify common power drills and bits and explain how to use them', Describe the difference between hammer drills and impact drivers', Identify pneumatic drills and impact wrenches and explain how to use them

Name	Objective
Identify and explain how to use various types of power saws.	Explain how to use a circular saw and identify different types of blades', Differentiate between jigsaws and reciprocating saws and explain how to use them', Explain how to use a portable band saw', Describe the difference between miter saws and cutoff saws', Explain how to use table saws and describe the types of jobs for which they are best suite

Name	Objective
Describe the types of jobs best suited to grinders and oscillating multi-tools.	Explain how to use various types of grinders', Identify grinder accessories and the jobs for which they are used', List the type of jobs that can be performed using an oscillating multitool

Name	Objective
Identify and explain how to use miscellaneous power tools	Discuss the hazards of using power nailers', Describe jobs that can be performed with hydraulic jacks

CCP108 - Construction Basics

Overview

Department
Applied Technologies

Course 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.

Academic Level (Course Level)
Undergraduate

Effective Start Term
Fall 2025

Credits

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
30

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
30

Course Learning Outcomes

Name	Objective
Describe components and features used in construction drawings and identify how the drawings are different	Summarize the purpose of the six basic construction drawing components', List and explain the significance of various drawing elements such as lines of construction symbols and grid lines', Explain how dimensions relate to various drawing scales', Demonstrate how to use engineers and architects scales', Identify the six types of construction drawings

Name	Objective
Demonstrate the communication, listening, and speaking processes and their relationship tojob performance	Describe the communication process and the importance of listening and speaking skills', Describe the listening process and identify good listening skills', Describe the speaking process and identify good speaking skills

Name	Objective
Demonstrate good reading and writing skills and their relationship to job performance.	Describe the importance of good reading and writing skills', Describe jobrelated reading requirements and identify good reading skills', Describe jobrelated writing requirements and identify good writing skills

Name	Objective
Identify and describe various types of rigging slings, hardware, and equipment.	Identify and describe various types of slings', Describe how to inspect various types of slings', Identify and describe how to inspect common rigging hardware', Identify and describe various types of hoists', Identify and describe basic rigging hitches and the related Emergency Stop hand signal

Name	Objective
Describe the opportunities in the construction businesses and how to enter the construction workforce.	Describe the construction business and the opportunities offered by the trades', Explain how workers can enter the construction workforce

Name	Objective
Explain the importance of critical thinking and how to solve problems.	Describe critical thinking and barriers to solving problems', Describe how to solve problems using critical thinking', Describe problems related to planning and scheduling

Name	Objective
Explain the importance of social skills and identify ways good social skills are applied in the construction trade	Identify good personal and social skills', Explain how to resolve conflicts with coworkers and supervisors', Explain how to give and receive constructive criticism', Identify and describe various social issues of concern in the workplace', Describe how to work in a team environment and how to be an effective leader

Name	Objective
Identify the basic concepts of material handling and common safety precautions	Describe the basic concepts of material handling and manual lifting', Identify common material handling safety precautions', Identify and describe how to tie knots commonly used in material handling

Name	Objective
Identify various types of material handling equipment and describe how they are used	Identify nonmotorized material handling equipment and describe how they are used', Identify motorized material handling equipment and describe how they are used

CCP112 - Carpentry I

Overview

Department
Applied Technologies

Course 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.

Academic Level (Course Level)
Undergraduate

Effective Start Term
Fall 2025

Credits

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
60

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
30

Lab Hours

Lab Hours Min:
30

Course Learning Outcomes

Name	Objective
Identify the career and training opportunities within the carpentry trade.	Describe craft training opportunities within the carpentry trade
Explain the importance of safety in carpentry, and how it impacts contractors and craft	Describe the OSHA Outreach Training Program and contents of a sitespecific safety plan SSSP
Identify skills and attributes of successful carpenters	List the skills and responsibilities of professional carpenters', Summarize the traits and standards followed by professional carpenters
Explain how organizations like SkillsUSA help you connect with construction craft professionals.	Describe SkillsUSA programscompetitions and the value they offer to the carpentry trainees and participating organizations', List the seven goals of the SkillsUSA Program of Work
Explain safety hazards and precautions associated with wood, concrete, steel, and composite building materials	Describe the focus four and explain how to reduce hazards associated with handling carpentry materials', Explain the benefits of a job hazard analysis
Identify different types of building materials and calculate needed quantities.	Summarize the types of lumber their characteristics and how lumber is graded', Describe the types of treated lumber', Identify engineered wood products and their applications', Distinguish between the types of concrete construction materials', Describe the types of steel framing and their applications', Summarize how to calculate lumber panel and concrete quantities
Explain how to properly handle and store building materials	Describe how to safely handle and store wood concrete and steel building materials
Identify fasteners, anchors, and adhesives used in construction.	Describe different types of nails screws bolts and staples', Summarize the categories of mechanical anchors', List adhesives used in construction and identify their applications
Describe drawings included in a set of construction plans and explain how to read them	Describe the purpose of each type of drawing in a set of plans', Identify selected lines architectural symbols and abbreviations used on plans', Describe the methods of dimensioning construction drawings
Read and Interprete written specifications	Summarize how specifications are organized', Explain the importance of construction building codes
Explain how construction drawings are used in site and building layout	
Understand fundamental construction math concepts and right triangle calculations used insite layout	
Demonstrate using common measuring and leveling tools in performing site and building layout.	Identify measuring tools and their applications', Describe leveling tools and their applications', Describe site layout instruments and equipment
Demonstrate how to measure horizontal and vertical distances, establish building lines, and verifycorners are square.	Describe how to measure horizontal and vertical distances', Summarize how to establish building lines with batter boards and verify corners are square

CCP122 - Carpentry II

Overview

Department
Applied Technologies

Course 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.

Academic Level (Course Level)
Undergraduate

Effective Start Term
Fall 2025

Credits

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
105

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
15

Lab Hours

Lab Hours Min:
90

Course Learning Outcomes

Name	Objective
Describe specifications and construction drawings that specify floor system requirements.	Summarize how specifications and architectural drawings are used in the construction of a floor
Identify the types of floor framing systems.	Describe the types of woodframe flooring systems', List alternative flooring systems
Demonstrate estimation skills for floor system components and required material quantities.	Define sill plate and describe its role in floor framing', List and recognize different types of girders and supports', Describe different types of floor joists', Explain the purposes of subfloor and underlayment', Estimate the amount of material needed for a floor assembly
Lay out and construct a platform floor assembly.	Summarize how specifications are organized
Identify the components of a wall system estimate and layout the needed framingmaterials.	List wall system components', Explain how to estimate quantities of materials required to frame walls
Assemble and erect wall systems using the correct procedures	Describe the steps used to assemble a wall', List the four steps used to erect a wall
Identify and install ceiling frame components	Describe how to lay out cut and install ceiling joists', Explain how to estimate the number of ceiling joists needed for a building
Identify common residential roof types and related components	Describe residential roof types', List the main components of a roof
Demonstrate the methods used to lay out and cut common rafters.	Explain how to lay out rafters and cut them to the proper length
Demonstrate how to erect and sheath a gable roof.	Describe how to erect a gable roof and frame gable ends', Summarize how to install sheathing on the roof', Explain how to estimate the rafters ridgeboard and sheathing needed for a material takeoff
Recognize the use of trusses in basic roof framing	Describe trusses and explain how they are installed
Identify stairway components and related requirements.	Define key stairway terms and building require', Describe the types of stairways
Describe and calculate the total rise, number and size of risers, and number and size oftreads needed for a stairway.	Summarize how to calculate the riser height tread depth and total run for a stairway', Describe how to calculate stairwell opening sizes
Deomstrate the procedure for constructing stairs	Explain how to lay out cut and build stringers and concentrate forms

Name	Objective
Describe the purpose and components of a building envelope system.	Identify ways to minimize air and moisture infiltration in buildings

Name	Objective
Understand window types and installation requirements.	Identify window types applications and installation steps

Name	Objective
Understand door types, applications, and installation requirements	Identify residential and nonresidential doors and explain installation steps

CRJ101 - Introduction to Criminal Justice

Overview

Department
Professional Studies

Course 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.

Academic Level (Course Level)
Undergraduate

Effective Start Term
Fall 2025

Credits

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
45

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
45

Course Learning Outcomes

Name	Objective
Summarize the historical, theoretical, and philosophical developments in criminal justice	Define the social forces that work against the criminal justice system', Identify key historical events that have shaped the criminal justice system

Name	Objective
Identify and discuss the steps in the criminal justice process	Identify the three elements of the criminal justice system', Order the process of a criminal case from start to finish

Name	Objective
Distinguish the goals and philosophes of the due process and the crime control models of criminal justice	Compare and contrast the due process and crime control models', Students will identify ways in which oppression privilege discrimination and social and economic disadvantage contribute to inequalities and injustices within criminal justice systems

Name	Objective
Identify the ethical responsibilities and constitutional duties of the criminal justice professional	Assess the role the criminal justice system plays in society', Identify the stress of police officers and its sources', Outline the sources of criminal and civil law', Illustrate the importance of ethical standards in policing courts and corrections', Apply the foundations of the constitution to determine the legality of laws

Name	Objective
Summarize how law enforcement, courts, and corrections operate and interact	Identify the goals of the system', Define what elements each part of the criminal justice system are each responsible for in a case', Outline the ethical issues that affect each level of the system', Describe the different actors in the court setting that work together

Name	Objective
Explain the importance of empirical data in criminal justice policy	Be familiar with statistical analyses of data', Demonstrate the ability to meaningfully interpret outcomes of data processing', Students will articulate the link between research theory and practice

CRJ105 - Criminal Investigation

Overview

Department
Professional Studies

Course 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.

Academic Level (Course Level)
Undergraduate

Effective Start Term
Fall 2025

Credits

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
45

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
45

Course Learning Outcomes

Name
The student will be able to determine criminal investigator characteristics necessary for a fair, complete and impartial investigation

Name
The student will be able to analyze facts to determine if a crime has been committed

Name
The student will be able to explain the purpose of each step in the criminal investigative process

Name
The student will be able to demonstrate documentation methods and procedures through the entire investigation process

Name
The student will be able to explain how to record a crime scene, collect, and preserve evidence

Name
The student will be able to explain appropriate protocol for collection, preservation and transportation of physical evidence to crime lab

Name
The student will be able to conduct a follow-up investigation using a variety of techniques

Name
The student will be able to identify appropriate techniques for questioning victims, witnesses and interrogating suspects

Name
The student will be able to explaina case for court presentation

CRJ110 - Criminal Law

Overview

Department
Professional Studies

Course Description
Examines the history, scope, and nature of law. It focuses on 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.

Academic Level (Course Level)
Undergraduate

Effective Start Term
Fall 2025

Credits

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
45

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
45

Course Learning Outcomes

Name
The student will be able to identify the historical, methodological, and theoretical practices in the legal system.

Name
The student will be able to distinguish the elements of criminal offenses.

Name
The student will be able to explain vicarious liability and parties to crime.

Name
The student will be able to explain defenses to criminal liability.

Name
The student will be able to demonstrate the ability to read and evaluate case and statutory law.

Name
The student will be able to apply criminal law to practical scenarios.

CRJ115 - Agency Administration

Overview

Department
Professional Studies

Course 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.

Academic Level (Course Level)
Undergraduate

Effective Start Term
Fall 2025

Credits

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
45

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
45

Course Learning Outcomes

Name
The student will be able to explain the budgeting process within the criminal justice system

Name
The student will be able to outline the organizational makeup of the criminal justice system

Name
The student will be able to explain leadership and management techniques

Name
The student will be able to determine appropriate communication as a management tool

Name
The student will be able to compare and contrast various theories and practices of motivation

Name
The student will be able to determine the need for diversity and multicultural training

Name
The student will be able to evaluate the impact of employee relations on the criminal justice system

Name
The student will be able to explain the rights and legal responsibilities of criminal justice employees

Name
The student will be able to summarize the formal and informal evaluation process of criminal justice employees

Name
The student will be able to utilize stress management techniques

Name
The student will be able to summarize elements that create an ethical environment

CRJ120 - Juvenile Delinquency and Justice

Overview

Department
Professional Studies

Course 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.

Academic Level (Course Level)
Undergraduate

Effective Start Term
Fall 2025

Credits

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
45

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
45

Course Learning Outcomes

Name
The student will be able to compare and contrast the adult and juvenile justice systems

Name
The student will be able to differentiate between the sources of official data

Name
The student will be able to explain the development of the juvenile justice system

Name
The student will be able to apply juvenile justice theories to practical situations

Name
The student will be able to illustrate the practical impact of juvenile law on juvenile procedures

Name
The student will be able to distinguish main procedural differences between adult and juvenile court

Name
The student will be able to summarize juvenile court and corrections options following adjudication

Name
The student will be able to explore juvenile behaviors, characteristics, and risk factors that lead to juvenile crime

Name
The student will be able to identify factors that influence police discretion

Name
The student will be able to demonstrate appropriate intervention strategies for juvenile offenders

CRJ125 - Law Enforcement Operations and Procedures

Overview

Department
Professional Studies

Course Description
Examines the role of police in society and 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.

Academic Level (Course Level)
Undergraduate

Effective Start Term
Fall 2025

Credits

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
45

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
45

Course Learning Outcomes

Name
The student will be able to explain the historical developments in law enforcement operations

Name
The student will be able to explain the foundations of effective police communication

Name
The student will be able to summarize a police officer's responsibilities during a domestic violence incident

Name
The student will be able to identify effective intervention techniques associated with domestic violence

Name
The student will be able to examine how police deal with street gangs

Name
The student will be able to explain the philosophy of community policing and problem solving

Name
The student will be able to compare and contrast different types of patrol and their effectiveness

Name
The student will be able to explain use of force continuum

Name
The student will be able to outline procedures involved in traffic stops

Name
The student will be able to explain law enforcement's role in response to community emergencies

Name
The student will be able to analyze challenges of law enforcement interaction with special and/or diverse populations

Name
The student will be able to conduct search operations

CRJ130 - Criminal Procedures

Overview

Department
Professional Studies

Course 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 interrogations, identification procedures, arrest, search and seizure, and admissibility of evidence.

Academic Level (Course Level)
Undergraduate

Effective Start Term
Fall 2025

Credits

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
45

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
45

Course Learning Outcomes

Name
The student will be able to explain the limits of police power regarding arrest and criminal procedure

Name
The student will be able to summarize the court system procedure and court personnel

Name
The student will be able to identify situations where constitutional rules apply

Name
The student will be able to differentiate among reasonable suspicion, probable cause, and beyond a reasonable doubt

Name
The student will be able to identify elements of lawful arrest

Name
The student will be able to determine individual pre-trial detainee rights

Name
The student will be able to explain rules of search and seizure and its exceptions

Name
The student will be able to identify the requirement that pertains to the execution of search and arrest warrants

Name
The student will be able to explain the rules of confessions and admission

CRJ135 - Criminal Justice Interview and Report Writing

Overview

Department
Professional Studies

Course 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.

Academic Level (Course Level)
Undergraduate

Effective Start Term
Fall 2025

Credits

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
45

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
45

Course Learning Outcomes

Name
The student will be able to conduct an interview

Name
The student will be able to use active listening skills

Name
The student will be able to distinguish among fact, opinion and inference

Name
The student will be able to develop strategies to obtain information in a variety of situations

Name
The student will be able to apply appropriate grammar and punctuation to written communication

Name
The student will be able to apply conventions of effective report writing in criminal justice

Name
The student will be able to document verbal and nonverbal behavior

Name
The student will be able to examine legal and ethical issues related to interviews

Name
The student will be able to take detailed field notes

Name
The student will be able to document facts of the case

Name
The student will be able to write comprehensive, detailed narratives using logical, coherent phrases, sentences and paragraphs

Name
The student will be able to prepare appropriate criminal justice reports

Name
The student will be able to demonstrate skills in the collection and interpretation of information from an incident

CRJ180 - KLETC or Equivalent Law Enforcement Academy Training

Overview

Department
Professional Studies

Course 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.

Academic Level (Course Level)
Undergraduate

Effective Start Term
Fall 2019

Credits

Credit Hours

Credit Hours Min:
12

Contact Hours

Contact Hours Min:
540

Billing Hours

Billing Hours Min:
12

Other Hours

Other Hours Min:
540

CUL130 - Culinary Innovation & Sustainability

Overview

Department
Hospitality & Culinary Arts

Course 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".

Academic Level (Course Level)
Undergraduate

Effective Start Term
Fall 2024

Credits

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
75

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
15

Lab Hours

Lab Hours Min:
60

Course Learning Outcomes

Name
Continue building on the foundation of culinary fundamentals by enhancing established skills while introducing new/alternative products and techniques.

Name
Identify inequities and environmental impacts within the food system and their implications.

Name
Assess the health, social, and environmental consequences of the food system.

Name
Structure a basis of customer-focused design thinking within the context of a social, environmental, fiscal, and personal sustainability, with particular concern given to the citizen chef.

Name
Identify and explore concepts of farm to table, seasonality, and forward-thinking food concepts when construction menus.

Name
Articulate how to make decisions that are good for business, its customers, and its employees within the framework of sustainability.

CWG115 - SMAW

Overview

Department
Manufacturing

Course 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.

Academic Level (Course Level)
Undergraduate

Instructional Methods
Traditional

Effective Start Term
Fall 2025

Credits

Credit Hours
Credit Hours Min:
3

Contact Hours
Contact Hours Min:
75

Billing Hours
Billing Hours Min:
3

Lecture Hours
Lecture Hours Min:
15

Lab Hours
Lab Hours Min:
60

Course Learning Outcomes

Name	Objective
The student will be able to explain the Shielded Metal Arc Welding process (SMAW).	Differentiate between types and uses of current', Identify the advantages and disadvantages of SMAW', Identify types of welding power sources', Identify different components of a SMAW station', Describe basic electrical safety

Name	Objective
The student will be able to demonstrate the safe and correct set up of the SMAW workstation.	Demonstrate proper inspection of equipment', Demonstrate proper use of PPE', Demonstrate proper placement of workpiece connection', Check for proper setup of equipment', Inspect area for potential hazardssafety issues

Name	Objective
The student will be able to relate SMAW electrode classifications with base metals and joint criteria	Explain the AWS electrode nomenclature', Determine proper electrode for given joint based on material and position of weld', Determine proper type of electrodes to be used in a variety of industry applications', Identify proper electrode storage and handling

Name	Objective
The student will be able to demonstrate proper electrode selection and use based on metal types and thicknesses	Select the proper electrode type and size relative to metal size type and thickness', Select the proper electrode type and size based on material specifications

Name	Objective
The student will be able to build pads of weld beads with selected electrodes in the flat position	Use the proper safety procedures and PPE', Use the proper setup procedures', Create a pad of beads using SMAW electrode', Weld exhibits proper uniformity and profile

Name	Objective
The student will be able to build pads of weld beads with selected electrodes in the horizontal position	Use the proper safety procedures and PPE', Use the proper setup procedures', Create a pad of beads using SMAW electrode', Weld exhibits proper uniformity and profile

Name	Objective
The student will be able to perform basic SMAW welds on selected weld joints.	Use the proper setup procedures', Use the proper safety procedures and PPE', Perform a fillet weld in horizontal position', Perform fillet weld in flat position', Perform a groove weld in a flat position', Perform a groove weld in a horizontal position', Use tools appropriate for the task

Name	Objective
The student will be able to perform visual inspection of welds	Identify common visual discontinuities and defects on welds', Determine causes of discontinuities and defects of welds', Inspect welds for passfail ratings according to industry standards', Use appropriate inspection tools

Name	Objective
The student will be able to execute surfacing welds with selected electrodes in the horizontal position	Use the proper safety procedures and PPE', Use the proper setup procedures', Create a surfacing weld using SMAW electrode', Weld exhibits proper uniformity and profile

CWG120 - GMAW

Overview
Department
Manufacturing

Course 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.

Academic Level (Course Level)
Undergraduate

Instructional Methods
Traditional

Effective Start Term
Fall 2025

Credits

Credit Hours
Credit Hours Min:
3

Contact Hours
Contact Hours Min:
75

Billing Hours
Billing Hours Min:
3

Lecture Hours
Lecture Hours Min:
15

Lab Hours
Lab Hours Min:
60

Course Learning Outcomes

Name	Objective
Explain gas metal arc welding process (GMAW)	Describe different modes of transfer', Differentiate between types and uses of current', Identify the advantages and disadvantages of GMAW', Identify types of welding power sources', Identify different components of a GMAW station', Describe basic electrical safety

Name	Objective
Build pads of weld beads with selected electrodes in the flat position	Implement safety procedures and PPE', Implement proper equipment setup', Use the proper metal transfer', Create a pad of beads using GMAW', Exhibit proper Weld uniformity and profile

Name	Objective
Demonstrate the safe and correct set up of the GMAW workstation	Demonstrate proper inspection of equipment', Demonstrate proper use of PPE', Demonstrate proper placement of workpiece connection', Check for proper setup of equipment', Inspect area for potential hazardssafety issues', Troubleshoot the GMAW equipment and perform minor maintenance

Name	Objective
Correlate GMAW electrode classifications with base metals and joint criteria	Explain the AWS electrode nomenclature', Determine proper electrode for given joint based on material and position of weld', Determine proper type of electrodes to be used in a variety of industry applications', Identify proper electrode storage and handling', Identify consumables

Name	Objective
Demonstrate proper electrode selection and use based on metal types and thicknesses	Identify consumables for various electrode sizes', Select the proper electrode type and size relative to metal size type and thickness', Select the proper electrode type and size based on material specifications

Name	Objective
Build pads of weld beads with selected electrodes in the horizontal position	Implement safety procedures and PPE', Implement proper equipment setup', Use the proper metal transfer', Create a pad of beads using GMAW', Exhibit proper weld uniformity and profile

Name	Objective
Produce basic GMAW welds on selected weld joints	Implement safety procedures and PPE', Implement proper equipment setup', Perform fillet weld in flat position', Perform a fillet weld in horizontal position', Perform a groove weld in a flat position', Perform a groove weld in a horizontal position', Use tools appropriate for the task

Name	Objective
Conduct visual inspection of GMAW welds	Identify common visual discontinuities and defects on welds', Determine causes of discontinuities and defects of welds', Inspect welds for passfail ratings according to industry standards', Use appropriate tools for inspection

Name	Objective
Perform surfacing welds with selected electrodes in the flat position	Implement safety procedures and PPE', Implement proper equipment setup', Use the proper metal transfer', Create a surfacing weld using GMAW', Exhibit proper Weld uniformity and profile

Name	Objective
Perform surfacing welds with selected electrodes in the horizontal position	Implement safety procedures and PPE', Implement proper equipment setup', Use the proper metal transfer', Create a surfacing weld using GMAW', Exhibit proper weld uniformity and profile

CWG125 - GTAW

Overview

Department
Manufacturing

Course 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.

Academic Level (Course Level)
Undergraduate

Instructional Methods
Traditional

Effective Start Term
Fall 2025

Credits

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
75

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
15

Lab Hours

Lab Hours Min:
60

Course Learning Outcomes

Name	Objective
Explain the gas tungsten arc welding process (GTAW)	Differentiate between types and uses of current', Identify the advantages and disadvantages of GTAW', Identify types of welding power sources', Identify different components of a GTAW workstation', Describe basic electrical safety

Name	Objective
Demonstrate the safe and correct set up of the GTAW workstation	Demonstrate proper inspection of equipment', Demonstrate proper use of PPE', Demonstrate proper placement of workpiece connection', Check for proper setup of equipment', Inspect area for potential hazardssafety issues', Troubleshoot GTAW equipment and perform minor maintenance

Name	Objective
Relate GTAW electrode and filler metal classifications with base metals and joint criteria	Identify electrode classifications', Explain the AWS electrode and filler metal nomenclature', Determine proper electrode and filler metal for given joint based on material and position of weld', Determine proper type of electrodes to be used in a variety of industry applications

Name	Objective
Build proper electrode and filler metal selection and use based on metal types and thicknesses	Use safety hazard precautions and PPE', Prepare the tungsten electrode profile relative to base material', Perform weld using GTAW process appropriate to electrode size and filler metal size', Select the proper electrode and filler metal type and size relative to metal size type and thickness', Select the proper electrode and filler metal type and size based on material specifications', Use tools appropriate for the task

Name	Objective
Build pads of weld beads with selected electrodes and filler material in the flat position	Use safety hazard precautions and PPE', Demonstrate proper equipment setup and troubleshooting', Create a pad of beads using GTAW process', Exhibit proper welduniformity and profile

Name	Objective
Build pads of weld beads with selected electrodes and filler material in the horizontal position	Use safety hazard precautions and PPE', Demonstrate proper equipment setup and troubleshooting', Create a pad of beads using GTAW process', Exhibit proper weld uniformity and profile

Name	Objective
Perform basic GTAW welds on selected weld joints	Conduct proper base metal preparation', Use safety hazard precautions and PPE', Demonstrate proper equipment setup and troubleshooting', Perform fillet weld in flat position', Perform a fillet weld in horizontal position', Perform a groove weld in a flat position', Perform a groove weld in a horizontal position', Use tools appropriate for the task

Name	Objective
Perform visual inspection of GTAW welds	Identify common visual discontinuities and defects on welds', Determine causes of discontinuities and defects of welds', Inspect welds for passfail ratings according to industry standards', Use tools appropriate for the inspection

Objective
Identify electrode classifications', Explain the AWS electrode and filler metal nomenclature', Determine proper electrode and filler metal for given joint based on material and position of weld', Determine proper type of tungsten electrodes to be used in a variety of industry applications

Name	Objective
Build proper tungsten electrode and filler metal selection and use based on metal types and thicknesses	Use safety hazard precautions and PPE', Prepare the tungsten electrode profile relative to base material', Perform weld using GTAW process appropriate to electrode size and filler metal size', Select the proper tungsten electrode and filler metal type and size relative to metal size type and thickness', Select the proper tungsten electrode and filler metal type and size based on material specifications', Use tools appropriate for the task

Name	Objective
Perform surfacing welds with selected tungsten electrodes and filler material in the flat position	Use safety hazard precautions and PPE', Demonstrate proper equipment setup and troubleshooting', Create a surfacing weld using GTAW process', Exhibit proper weld uniformity and profile

Name	Objective
Perform surfacing welds with selected tungsten electrodes and filler material in the horizontal position	Use safety precautions and PPE', Demonstrate proper equipment setup and troubleshooting', Create a surfacing weld using GTAW process', Exhibit proper weld uniformity and profile

ELE110 - Print Reading

Overview

Department
Applied Technologies

Course Description
Students learn to read specification manuals and prints as applied to residential, commercial, and industrial buildings.

Academic Level (Course Level)
Undergraduate

Effective Start Term
Fall 2025

Credits

Credit Hours

Credit Hours Min:
2

Contact Hours

Contact Hours Min:
30

Billing Hours

Billing Hours Min:
2

Lecture Hours

Lecture Hours Min:
30

ELE120 - AC/DC Circuits

Overview

Department
Applied Technologies

Course Description
AC/DC circuits address the basics of direct and alternating current circuits.

Academic Level (Course Level)
Undergraduate

Effective Start Term
Fall 2025

Credits

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
60

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
60

Course Learning Outcomes

Name
Describe and apply Ohms, Watts, and Kirchhoff laws

Name
Define, demonstrate and apply the characteristics of series, parallel, and combination circuits

Name
Explain DC theory concepts

Name
Explain AC theory concepts

Name
Perform and interpret electrical measurements using industry standard equipment

ELE130 - Commercial Wiring I

Overview

Department
Applied Technologies

Course Description
An introductory course on commercial wiring methods that includes practical applications and hands-on experience in implementing code requirements.

Academic Level (Course Level)
Undergraduate

Effective Start Term
Fall 2025

Credits

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
60

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
60

Course Learning Outcomes

Name
Identify various types of feeder/ branch circuit wiring methods

Name
Perform conduit bending Identify and perform conductor installation

Name
Calculate raceway and box fill per NEC

Name
Identify components of distribution equipment

Name
Identify the NEC requirements for grounding and bonding

Name
Perform service calculations per NEC

Name
Apply NFPA 70 E requirements

ELE150 - National Electrical Code I

Overview

Department
Applied Technologies

Course Description
An introductory course on the use of and interpretation of the current national electric code.

Academic Level (Course Level)
Undergraduate

Effective Start Term
Fall 2025

Credits

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
60

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
60

Course Learning Outcomes

Name
Explain the purpose and history of NEC and layout

Name
Interpret and apply general requirements of the NEC

Name
Interpret and apply wiring and protection requirements

Name
Interpret and apply wiring methods and materials

Name
Install equipment for general use

ELE160 - National Electrical Code II

Overview

Department
Applied Technologies

Course Description
A continuation of the National Electrical Code I course on the use and interpretation of the current national electric code.

Academic Level (Course Level)
Undergraduate

Effective Start Term
Fall 2025

Credits

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
60

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
60

Course Learning Outcomes

Name
Interpret and apply special occupancies per NEC

Name
Interpret and apply special equipment per NEC

Name
Interpret and apply special conditions per NEC

Name
Interpret and apply communications per NEC

Name
Interpret and apply tables per NEC

ELE180 - Residential Wiring I

Overview

Department
Applied Technologies

Course Description
An introductory course on residential wiring methods that includes practical applications and hands-on experience in implementing code requirements.

Academic Level (Course Level)
Undergraduate

Effective Start Term
Fall 2025

Credits

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
60

Billing Hours

Billing Hours Min:
4

Lecture Hours

Lecture Hours Min:
60

Course Learning Outcomes

Name
Identify and install required branch circuits per NEC

Name
Install and calculate residential services per NEC

Name
Identify and install various types of luminaries

Name
Describe branch circuit requirements for appliances per NEC

Name
Identify and install various types of switches and receptacles per NEC

Name
Identify the NEC requirements for grounding and bonding

Name
Identify and install over current/short circuit and ground fault protection

ENG101 - Composition I

Overview

Department
General Education

Course 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.

Academic Level (Course Level)
Undergraduate

Effective Start Term
Fall 2025

Credits

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
45

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
45

Course Learning Outcomes

Name	Objective
Employ conventions of format, structure, voice, tone, and level of formality to produce writing for specific purposes and audiences as required by various writing situations	Define and respond to the audience needs appropriate to the writing task', Focus on a purpose consistent with specific rhetorical situations', Formulate a thesis statement', Organize information according to a logical plan', Understand the relationship amount language knowledge and power

Name	Objective
Practice ethical means of creating their work while integrating their own ideas with those of others	Select information related to the thesis statement', Discover relevant information for a variety of sources', Evaluate credibility of sources', Paraphrase summarize and directly quote sources', Discern when to paraphrase summarize or directly quote according to the writing situation', Integrate own ideas with those of others', Employ MLA format including parentheticals and Works Cited

Name	Objective
Demonstrate an ability to fulfill standards of syntax, grammar, punctuation, and spelling for various rhetorical contexts	Construct and correctly punctuate complete sentences', Assemble grammatically correct structures', Maintain consistency in person subject voice tense and mood', Produce text that is reasonable free of incorrect spelling

Name	Objective
Apply flexible strategies for prewriting, developing, drafting, revising, editing, and proofreading	Generate ideas through a variety of prewriting techniques', Formulate a thesis statement', Organize information according to a logical plan', Develop multiple drafts', Critique students own draft as well as drafts of other students', Assess effectiveness of draft and validity of studentinstructor feedback', Modify in response to studentinstructor comments', Understand writing as an open process that permits writers to use later invention and rethinking to revise their work

Name	Objective
Critique their own and others work	Appraise taskrelated student and professional writing examples', Use writing and reading for inquiry learning thinking and communicating

ENG110 - Introduction to Literature

Overview

Department
General Education

Course 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.

Academic Level (Course Level)
Undergraduate

Effective Start Term
Fall 2025

Credits

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
45

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
45

Course Learning Outcomes

Name
The student will demonstrate a college-level ability to communicate an awareness of the range of human experience as expressed through literature

Name
The student will demonstrate a college-level ability to examine the interaction of reader and writer in the creation of meaning

Name
The student will demonstrate a college-level ability to articulate distinctive features various genes

Name
The student will demonstrate a college-level ability to analyze structures and figurative language of literary texts

Name
The student will demonstrate a college-level ability apply modes of critical inquiry specific to the discipline

Name
The student will demonstrate a college-level ability to write thoughtful literary analysis using appropriate terminology and conventions

Name
Demonstrate an awareness of the complexity and diversity of human experience as expressed through literature

Name
Examine the interactions of reader and writer in the creation of meaning

Name
Articulate the distinctive features of various genres

Name
Apply modes of critical inquiry specific to the discipline

Name
Write thoughtful literary analysis using appropriate terminology and conventions

ENG120 - Composition II

Overview

Department
General Education

Course 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.

Academic Level (Course Level)
Undergraduate

Effective Start Term
Fall 2025

Credits

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
45

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
45

Course Learning Outcomes

Name	Objective
Compose persuasive or informative texts acknowledging the expectations of specific audiences	Generate ideas through response journals and class discussion', Define an audience appropriate to the writing task', Focus on a purpose consistent with specific pattern of writing', Formulate a thesis statement', Select information related to the thesis statement', Organize information according to a logical plan', Develop multiple drafts', Modify in response to studentinstructor comments', Construct and correctly punctuate complete sentences', Assemble grammatically correct structures', Maintain consistency in person subject voice tense and mood', Produce text that is reasonably free of incorrect spelling

Name	Objective
Apply research strategies including finding, evaluating, analyzing, and synthesizing sources	Appraise taskrelated student and professional writing examples', Select information related to the thesis statement', Discover relevant information from a variety of sources', Evaluate credibility of sources', Employ MLA format including parentheticals and Works Cited

Name	Objective
Employ an appropriate style for citing and listing sources	Paraphrase summarize and directly quote sources', Discern when to paraphrase summarize or directly quote according to the writing situation', Employ MLA format including parentheticals and Works Cited

Name	Objective
Demonstrate the ability to read and think critically about texts	Understand the relationship among language knowledge and power', Critique students own draft as well as drafts of other students', Assess effectiveness of draft and validity of studentinstructor feedback', Understand writing as an open process that permits writers to use later invention and rethinking to revise their work', Identify fundamental literary techniques and elements', Explore the writers purpose for employing various techniques', Respond to literature by relating literary themes to personal experiences', Understand the various levels of application in literatures', Compare literary works

HIS110 - United States History to 1877

Overview

Department
General Education

Course 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.

Academic Level (Course Level)
Undergraduate

Instructional Methods
Traditional

Effective Start Term
Fall 2024

Credits

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
45

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
45

Course Learning Outcomes

Name	Objective
Demonstrate Basic Skills and tools of the Historians' Craft	Demonstrate the ability to analyze synthesize and evaluate historical information

Name	Objective
Demonstrate research and writing skills, including the ability to: Interpret primary and secondary sources; Evaluate the validity of sources; Analyze historical perspectives; Recognize change over time	Interpret primary and secondary sources', Evaluate the validity of sources', Analyze historical perspectives', Recognize change over time

Name	Objective
Recognize that United States History is influenced by ethnicity, race, class, gender, and environment among other factors. With this awareness, students will: Describe major indigenous cultures of North America and evaluate their impact;	Describe major indigenous cultures of North America and evaluate their impact

Name	Objective
Describe and analyze significant political, social, economic, and diplomatic developments of the European exploration and colonization of North America; Trace and evaluate causes, developments and consequences of the American Revolution; Describe and analyze significant events in the creation of the American Republic; Describe and analyze significant political, social, economic, and diplomatic developments of the Early Republic; Describe and analyze significant political, social, economic, and diplomatic developments, including territorial expansion and sectionalism, of antebellum America; Trace and evaluate causes, developments and consequences of the Civil War; Describe the Era of Reconstruction and evaluate its impact	Describe and analyze significant political social economic and diplomatic developments of the European exploration and colonization of North America', Trace and evaluate causes developments and consequences of the American Revolution', Describe and analyze significant events in the creation of the American Republic', Describe and analyze significant political social economic and diplomatic developments of the Early Republic', Describe and analyze significant political social economic and diplomatic developments including territorial expansion and sectionalism of antebellum America', Trace and evaluate causes developments and consequences of the Civil War', Describe the Era of Reconstruction and evaluate its impact

Name
Describe historical perspectives and change over time by analyzing, evaluating, and interpreting primary and secondary historical sources.

Name	Objective
Describe and analyze the social, political, and economic developments of the following periods of American History:	Describe major indigenous cultures of North America and evaluate their impact', Describe and analyze significant political social economic and diplomatic developmentsof the European exploration and colonization of North America', Trace and evaluate causes developments and consequences of the American Revolution', Describe and analyze significant events in the creation and development of American society institutions and political structures in the Early Republic', Describe and analyze significant political social economic and diplomatic developments including territorial expansion and sectionalism of antebellum America', Trace the development of the transAtlantic slave trade and the practice of slavery in the American colonies and analyze the impact of slavery on US institutions events and peoples', Trace and evaluate causes developments and consequences of the Civil War', Describe the Era of Reconstruction and evaluate its impact

HIS120 - United States History since 1865

Overview

Department
General Education

Course 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.

Academic Level (Course Level)
Undergraduate

Instructional Methods
Traditional

Effective Start Term
Fall 2024

Credits

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
45

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
45

Course Learning Outcomes

Name
Demonstrate the ability to analyze, synthesize, and evaluate change over time

Name	Objective
Demonstrate research skills, including the ability to: Utilize primary and secondary sources, evaluate the validity of sources, analyze historical perspectives, and demonstrate the ability to analyze, synthesize, and evaluate change over time	Utilize primary and secondary sources', Evaluate the validity of sources', Analyze historical perspectives', Demonstrate the ability to analyze synthesize and evaluate change over time

Name	Objective
Incorporating an awareness that historical perspectives are influenced by, race, class, and gender, among other factors, students completing American survey courses will be able to:	Describe the major indigenous cultures of North America and evaluate their impact', Describe and analyze the significant political social economic and diplomatic developments of the European exploration and colonization of North America', Trace and evaluate the causes course and consequences of the American Revolution', Describe and analyze the significant events in the creation of the American Republic', Describe and analyze the significant political social economic and diplomatic developments of the early republic', Describe and analyze the significant political social economic and diplomatic developments including territorial expansion and sectionalism of antebellum America', Trace and evaluate the causes course and consequences of the Civil War', Describe the era of Reconstruction and evaluate its impact', Describe and analyze the causes course and impact of American imperialism', Describe and analyze the significant political social economic and diplomatic developments including reform movements of modern industrial America', Trace and evaluate the causes course and consequences of World War I', Describe and analyze the significant political social economic and diplomatic developments of the interwar years', Describe the causes course and consequences of the Great Depression and New Deal and evaluate their impact', Trace and evaluate the causes course and consequences of World War II', Describe and analyze the significant political social economic developments of postwar America', Describe and analyze the international role of the United State in the postwar world', Describe and analyze the significant political social economic and diplomatic developments that transformed American from the modern Civil Rights movements through the Vietnam conflict', Describe and analyze recent political social economic and diplomatic developments

Objective
Describe the era of Reconstruction and evaluate its impact', Describe and analyze causes course and effects of American imperialism', Describe and analyze significant political social economic and diplomatic developments including reform movements of modern industrial America', Trace and evaluate causes developments and consequences of World War I', Describe and analyze significant political social economic and diplomatic developments of the interwar years', Describe causes course and consequences of the Great Depression and New Deal and evaluate their impact', Trace and evaluate causes developments and consequences of World War II', Describe and analyze significant political social economic developments of postwar America', Describe and analyze the international role of the United States in the Cold War Era world', Describe and analyze significant political social and economic developments that transformed America beginning with the modern Civil Rights movements', Describe and analyze postCold War political social economic and diplomatic developments

HIS130 - World History I

Overview

Department
General Education

Course 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.

Academic Level (Course Level)
Undergraduate

Instructional Methods
Traditional

Effective Start Term
Fall 2024

Credits

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
45

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
45

Course Learning Outcomes

Name	Objective
Through clear communication, students should demonstrate an understanding and be able to analyze and synthesize at least three of the following historical lenses: Arts and literature, Cultural identity, Diffusions and encounters, Economics, Environment, Ethnicity and race, Gender, Global thinking, Influential individuals and ideas of leadership, Intellectual culture, Material culture, Military developments, Politics, Religions, Social constructs, Scientific/ technological developments	Arts and literature', Cultural identity', Diffusions and encounters', Economics', Environment', Ethnicity and race', Gender', Global thinking', Influential individuals and ideas of leadership', Intellectual culture', Material culture', Military developments', Politics', Religions', Social constructs', Scientifictechnological developments

Name	Objective
Relative to tracing and evaluating the origins and characteristics of prehistory, students will do the following: Identify stages of human evolution, Analyze the characteristics of Paleolithic societies, Evaluate the impacts of the Neolithic transformation/revolution	Identify stages of human evolution', Analyze the characteristics of Paleolithic societies', Evaluate the impacts of the Neolithic transformationrevolution

Name	Objective
Students will trace and evaluate the origins and characteristics of the earliest major civilizations, including the following: Mesopotamia, Egypt, Indus Valley, China, SubSaharan Africa, Americas	Mesopotamia', Egypt', Indus Valley', China', SubSaharan Africa', Americas

Name	Objective
Students will describe and analyze the significant political, social, economic, religious, and cultural developments of the ancient and classical worlds, including the following: China, Greece, India, Persia, Hellenistic World, Rome, Americas, Asia	China', Greece', India', Persia', Hellenistic World', Rome', Americas', Asia

Name	Objective
Students will describe and analyze the significant political, social, economic, religious, and cultural transformations, developments, and contributions of the postclassical civilizations, including the following: Transformation of the Roman world and development of postRoman societies, Development of Byzantium and Christian Europe, Development and spread of Islam, Development and contribution of Southeast Asian cultures, Development and contribution of the Indian subcontinent, Development and contributions of Eurasian trade networks	Transformation of the Roman world and development of postRoman societies', Development of Byzantium and Christian Europe', Development and spread of Islam', Development and contribution of Southeast Asian cultures', Development and contribution of the Indian subcontinent', Development and contributions of Eurasian trade networks

Name	Objective
Students will describe and analyze the significant political, social, economic, religious, and cultural developments of the Nomadic societies, including the following: Characteristics of nomadic societies, Impacts of Nomads on the development of civilizations	Characteristics of nomadic societies', Impacts of Nomads on the development of civilizations

Name	Objective
Students will describe and analyze the significant political, social, economic, religious, and cultural developments of medieval European civilizations, including the following: Characteristics of medieval European civilizations, Interactions between Western Europe and the Islamic world, Interactions between Western Europe, SubSaharan Africa, and South and East Asia	Characteristics of medieval European civilizations', Interactions between Western Europe and the Islamic world', Interactions between Western Europe SubSaharan Africa and South and East Asia

Name	Objective
Students will describe and analyze the significant political, social, economic, religious, and cultural developments of global integrations, including the following: Shaping of the Mongol Empire and its impact, Bantu migration and its impact, Development of trade networks, European voyages of exploration, Formation and consequences of European colonization, Impacts of global interactions on world societies, Transformations of coercive labor systems, including serfdom and slavery, Similarities between Atlantic Basin and Indian Basin trade systems	Shaping of the Mongol Empire and its impact', Bantu migration and its impact', Development of trade networks', European voyages of exploration', Formation and consequences of European colonization', Impacts of global interactions on world societies', Transformations of coercive labor systems including serfdom and slavery', Similarities between Atlantic Basin and Indian Basin trade systems

Name	Objective
Students will utilize the basic tools of the craft of history: Understand the difference between primary and secondary sources and use appropriate critical approaches for both, Prioritize, analyze, and synthesize historical materials and ideas, Write and communicate clearly, Describe and analyze change over time and global interactions	Understand the difference between primary and secondary sources and use appropriate critical approaches for both', Prioritize analyze and synthesize historical materials and ideas', Write and communicate clearly', Describe and analyze change over time and global interactions

Name
Students will describe and analyze the significant political, social, economic, religious, and cultural developments of the Sub-Saharan Africa, the Americas, and Oceania between 1000 and 1500 C.E., including the following: Characteristics of Sub-Saharan Africa, the Americas, and Oceania; Impacts of Sub-Saharan Africa, the Americas, and Oceania on world cultures.

IND109 - Programmable Logic Controls

Overview

Department
Manufacturing

Course 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.

Academic Level (Course Level)
Undergraduate

Effective Start Term
Fall 2025

Credits

Credit Hours

Credit Hours Min:
4

Contact Hours

Contact Hours Min:
105

Billing Hours

Billing Hours Min:
4

Lecture Hours
Lecture Hours Min:
15

Lab Hours
Lab Hours Min:
90

Course Learning Outcomes

Name
Demonstrate safety procedures when working with PLCs.

Name
Connect a PLC to a programming device with proper wiring and terminations of inputs and outputs.

Name
Identify the types, components, and basic operation of a PLC, including the primary function and the various basic components.

Name
Identify the numbering systems and symbols used in PLC relay ladder logic.

Name
Describe addressing and the function of tags, how PLC module terminals are referenced by tag names, and the application of module-defined tag structures.

Name
Describe the purposes of the power supply, input/output (both discrete and analog), processor and programming sections of a PLC, and the function and operation of I/O diagrams and module indicator lights.

Name
Develop a functional PLC program using appropriate programming languages.

Name
Demonstrate the execution of a created PLC program, including monitoring of the PLC operation, and running and stopping a PLC processor file.

Name
Demonstrate the process of PLC system troubleshooting, including I/O sections of a PLC and related field devices.

IND122 - AC/DC Circuits

Overview
Department
Manufacturing

Course Description
AC/DC circuits addresses the basics of direct and alternating current circuits.

Academic Level (Course Level)
Undergraduate

Effective Start Term
Fall 2025

Credits
Credit Hours
Credit Hours Min:
4

Contact Hours
Contact Hours Min:
90

Billing Hours
Billing Hours Min:
4

Lecture Hours
Lecture Hours Min:
30

Lab Hours
Lab Hours Min:
60

Course Learning Outcomes

Name
Describe and apply Ohms, Watts, and Kirchhoff laws

Name
Define, demonstrate, and apply the characteristics of series, parallel, and combination circuits.

Name
Explain DC theory concepts

Name
Explain AC theory concepts.

Name
Perform and interpret electrical measurements using industry standard equipment.

Name
Read and interpret electrical symbols and schematics.

Name
Troubleshoot basic AC and DC circuits.

IND130 - Mechanical Systems

Overview

Department
Manufacturing

Course 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.

Academic Level (Course Level)
Undergraduate

Effective Start Term
Fall 2024

Credits

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
75

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
15

Lab Hours

Lab Hours Min:
60

Course Learning Outcomes

Name
The student will be able to identify shaft size using precision measuring instruments.

Name
The student will be able to demonstrate shaft alignment using a flexible jaw coupling and a straight edge and feeler gage.

Name
The student will be able to select, measure, and install a key fastener to locate a hub on a shaft.

Name
The student will be able to demonstrate shaft alignment skills necessary to install chain, grid, and gear couplings using the straight edge and feeler gage method.

Name
The student will be able to demonstrate selection, maintenance, and troubleshooting of a variety of couplings.

Name
The student will be able to calculate sprocket ratio, shaft speed, and torque of a chain drive system.

Name
The student will be able to demonstrate installation and alignment of a chain drive system to include the use of master link connectors, and determine allowable chain sag and adjust chain tension.

Name
The student will be able to calculate pulley ratio, shaft speed, and torque of a v-belt drive system.

Name
The student will be able to demonstrate installation and alignment of a v-belt drive system, and calculate allowable belt deflection and adjust tension.

Name
The student will be able to demonstrate installation and alignment of spur gear drive system, and determine and adjust backlash in gear drive system.

Name
The student will be able to identify, specify, and select v-belts and their drive components, and demonstrate maintenance and troubleshooting skills for v-belt drives.

Name
The student will be able to explain the purpose and application of different types of lubrication.

IND131 - Industrial Programmable Logic Controls (PLC)

Overview

Department
Manufacturing

Course 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.

Academic Level (Course Level)
Undergraduate

Effective Start Term
Fall 2024

Credits

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
90

Billing Hours

Billing Hours Min:
3

Lab Hours

Lab Hours Min:
90

Course Learning Outcomes

Name	Objective
The student will be able to develop and troubleshoot a functional programmable logic controller program	Demonstrate the safety procedures when working with programmable logic controllers', Identify the types and components of a programmable logic controller', Connect a programmable logic controller to a programming device', Select the proper wiring and terminations of inputs and outputs', Identify the numbering systems used in programmable logic controllers', Identify the symbols used in programmable logic controller relay ladder logic', Develop a functional programmable logic controller program', Document a programmable logic controller program', Demonstrate the process of programmable logic controller system troubleshooting

Name
Demonstrate the safety procedures when working with programmable logic controllers

Name
Identify the types and components of a programmable logic controller

Name
Connect a programmable logic controller to a programming device

Name
Select the proper wiring and terminations of inputs and outputs

Name
Identify the numbering systems used in programmable logic controllers

Name
Identify the symbols used in programmable logic controller relay ladder logic

Name
Develop a functional programmable logic controller program

Name
Document a programmable logic controller program

Name
Demonstrate the process of programmable logic controller system troubleshooting

IND132 - Industrial Process Control

Overview

Department
Manufacturing

Course 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.

Academic Level (Course Level)
Undergraduate

Effective Start Term
Fall 2024

Credits

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
60

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
30

Lab Hours

Lab Hours Min:
30

Course Learning Outcomes

Name
The student will be able to explain the basic principles & importance of process control in industrial process plants and specify the required instrumentation and final elements to ensure that well-tuned control is achieved.

Name
The student will be able to understand the setup and operation of a (PID) Proportional, Integral, Derivative Controller.

Name
The student will be able to read mechanical schematics and hook up plumbing.

Name
The student will be able to read electrical schematics and hook up wiring.

Name
The student will be able to adjust PID to a control process.

INF105 - CompTIA A+ Core 1

Overview

Department
Information Technology

Course 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.

Academic Level (Course Level)
Undergraduate

Effective Start Term
Fall 2025

Credits

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
75

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
15

Lab Hours

Lab Hours Min:
60

Course Learning Outcomes

Name	Objective
The student will be able to identify basic hardware components and explain their function	Categorize storage devices and backup media, Explain motherboard components, types and features, Classify power supplies types and characteristics, Explain the purpose and characteristics of CPUs (Central Processing Unit) and their features, Explain cooling methods and devices, Compare and contrast memory types, characteristics and their purpose, Distinguish between the different display devices and their characteristics, Install and configure peripherals and input devices, Summarize the function and types of adapter cards, Install, configure and optimize laptop components and features, Install and configure printers
The student will demonstrate an understanding of various troubleshooting techniques	Given a scenario, explain the troubleshooting theory, Given a scenario, explain and interpret common hardware and operating system symptoms and their causes, Given a scenario, determine the troubleshooting methods and tools for printers, Given a scenario, explain and interpret common laptop issues and determine the appropriate basic troubleshooting method, Given a scenario, integrate common preventative maintenance techniques
The student will demonstrate an understanding of networking fundamentals	Compare and contrast the different Windows Operating Systems and their features, Given a scenario, demonstrate proper use of user interfaces, Explain the process and steps to install and configure the Windows OS (Operating System), Explain the basics of boot sequences, methods and startup utilities
The student will demonstrate an understanding of basic operational procedures relating to safety and professionalism	Summarize the basics of networking fundamentals, including technologies, devices, and protocols, Categorize network cables and connectors and their implementations, Compare and contrast the different network types

Name	Objective
The student will demonstrate an understanding of personal computer and laptop components and how to troubleshoot related issues	Explain the basic principles of security concepts and technologies, Summarize a variety of security features

INF110 - CompTIA A+ Core 2

Overview

Department
Information Technology

Course 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.

Academic Level (Course Level)
Undergraduate

Effective Start Term
Fall 2024

Credits

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
60

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
30

Lab Hours

Lab Hours Min:
30

Course Learning Outcomes

Name
The student will demonstrate an understanding of Windows Operating System
The student will demonstrate an understanding of basic security features and technology
The student will be able to troubleshoot common problems related to Windows Operating system
The student will be able to troubleshoot and install a small network
The student will demonstrate an understanding of implementing and maintaining system security

INF115 - Network+ Part I

Overview

Department
Information Technology

Course Description
This course prepares a student for entry level installing, maintaining, troubleshooting, and repairing a computer network.

Academic Level (Course Level)
Undergraduate

Effective Start Term
Fall 2024

Credits

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
60

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
30

Lab Hours

Lab Hours Min:
30

Course Learning Outcomes

Name
The student will be able to understand the elements of a network and certifications available to network professionals.

Name
The student will be able to describe the layers of the OSI model and identify standards for organizational networking.

Name
The student will be able to understand and identify characteristics of a network protocols.

Name
The student will be able to explain concepts related to data transmission, benefits and limitations of networking media, and identify the best practices for cabling work areas.

Name
The student will be able to explain the benefits and uses of different topologies.

Name
The student will be able to distinguish between the different types of networking hardware.

Name
The student will be able to understand and have the ability to distinguish between WAN technology and remote connectivity.

INF116 - Network+ Part II

Overview

Department
Information Technology

Course 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.

Academic Level (Course Level)
Undergraduate

Effective Start Term
Fall 2024

Credits

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
60

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
30

Lab Hours

Lab Hours Min:
30

Course Learning Outcomes

Name
The student will be able to work with Windows Server and manage users, groups and rights under Windows server

Name
The student will be able to understand the purposes and uses of PXE (Pre-Execution Environment), DHCP (Dynamic Host Configuration Protocol), and DNS (Domain Name System). Students will used TCP/IP (Transmission Control Protocol/ Internet Protocol) protocols for network troubleshooting

Name
The student will be able to troubleshoot using software and hardware network tools to diagnose problems

Name
The student will be able to perform baseline analysis of a network, plan regular hardware/software maintenance, know the pitfalls of making changes to the network, and research trends for future network upgrades

Name
The student will be able to identify network threats and protect a network from loss or damage The student will be able to understand how physical security contributes to network security

Name
The student will be able to analyze the status of a network and perform a needs assessment for managing network implementation project

Name
The student will be able to identify network hardware and explain their uses

INF120 - Security+

Overview

Department
Information Technology

Course 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.

Academic Level (Course Level)
Undergraduate

Effective Start Term
Fall 2025

Credits

Credit Hours
Credit Hours Min:
3

Contact Hours
Contact Hours Min:
60

Billing Hours
Billing Hours Min:
3

Lecture Hours
Lecture Hours Min:
30

Lab Hours
Lab Hours Min:
30

Course Learning Outcomes

Name	Objective
Compare and contrast various types of controls related to governance, risk, and compliance	Explain the importance of applicable regulations, standards, or frameworks that impact organizational security posture, Explain the importance of polices to organizational security, Explain the importance of security concepts in an enterprise environment, Summarize risk management processes and concepts
Summarize the techniques used in security assessments	Given a scenario, use the appropriate tool to assess organizational security, Explain the techniques used in penetration testing
Explain different threat actors, vectors, and intelligent sources	Compare and contrast different types of social engineering techniques, Given a scenario, analyze potential indicators associated with network attacks, Explain the security concerns associated with various types of vulnerabilities, Given a scenario, analyze potential indicators associated with application attacks

	Objective
Name Given a scenario, implement secure network designs	Summarize the basics of cryptographic concepts, Distinguish and differentiate network design elements and compounds, Explain the security function and purpose of network devices and technologies, Apply and implement secure network administration principles, Identify commonly used default network ports, Implement wireless network in a secure manner, Explain the importance of physical security controls, Explain the security implications of embedded and specialized systems, Exemplify the concepts of confidentiality, integrity, and availability (CIA) (Confidentiality, Integrity and Availability), Summarize authentication and authorization design concepts, Given a scenario, install and configure wireless security settings, Given a scenario, implement secure protocols, Given a scenario, implement public key infrastructure, Given a scenario, apply cybersecurity solutions to the cloud, Given a scenario, implement cybersecurity resilience Given a scenario, implement host or application security solutions, Given a scenario, implement identity and account management controls

Name Explain privacy and sensitive data concepts in relation to security

	Objective
Name Given and incident, utilize appropriate data sources to support an investigation	Execute disaster recovery plans and procedures, Explain risk related concepts, Execute appropriate incident response procedures, Explain the importance of security related awareness and training, Compare and contrast aspects of business continuity, Carry out appropriate risk mitigation strategies, Explain the impact and proper use of environmental controls, Explain the key aspects of digital forensics, Given a scenario, analyze potential indicators to determine the type of cyber-attack, Given an incident, apply mitigation techniques or controls to secure and environment Summarize the importance of policies, processes, and procedures for incident response

Name Summarize secure application development, deployment, and automation concepts

INF134 - Server +

Overview

Department
Information Technology

Course 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 Administers, Webserver administrators, virtualization, and cloud administrator roles.

Academic Level (Course Level)
Undergraduate

Effective Start Term
Fall 2025

Credits

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
75

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
15

Lab Hours

Lab Hours Min:
60

Course Learning Outcomes

Name	Objective
The student will setup and maintain server hardware	Configure RAID 0, 1, 5, 6 and hot spares, Configure servers to use network infrastructure services including aggregating NICs, Deploy and manage network storage, Install physical server hardware, Perform hardware maintenance, Summarize proper server decommissioning concepts

Name	Objective
The student will install, configure, and maintain Server operating system software	Configure DNS, DHCP, and failover, Configure server firewalls, Install and configure Windows Active Directory, Create and implement group polices in AD, Create a file structure and assign appropriate permissions, Summarize scripting basics for server administration, Configure and maintain server functions and features, Explain important concepts pertaining to identity and access management for server administration, Explain licensing concepts, Configure and maintain server functions and features, Implement drive encryption

Name	Objective
The student will configure and maintain virtualization	Summarize the purpose and operation of virtualization, Implement virtualization by installing ESXi, Configure ESXi Building virtual servers

Name	Objective
The student will troubleshoot both physical and virtual systems	Explain troubleshooting theory and methodology, Given a scenario, troubleshoot common hardware failures, Given a scenario, troubleshoot common operating system and software problems, Given a scenario, troubleshoot network connectivity issues, Given a scenario, troubleshoot security problems, Given a scenario, troubleshoot storage problems

Name	Objective
The student will understand the basics of disaster recovery	Explain the importance of backups and restores, Explain the importance of disaster recovery, Explain data security risks and mitigation strategies, Explain the importance of asset management and documentation

INF142 - Cloud+

Overview

Department
Information Technology

Course 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.

Academic Level (Course Level)
Undergraduate

Effective Start Term
Fall 2025

Credits

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
75

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
15

Lab Hours

Lab Hours Min:
60

Course Learning Outcomes

Name	Objective
Analyze the different cloud models to determine the best solution to support technical needs	Analyze deployment results to confirm they meet the baseline, Analyze sizing, subnetting, and basic routing for a provided deployment of the virtual network, Analyze system requirements to determine if a given testing plan is appropriate, Given SLA requirements, determine the appropriate metrics to report, Execute a provided deployment plan, Analyze system requirements to ensure successful system deployment, Analyze characteristics of the workload (storage, network, compute) to ensure a successful migration, Analyze CPU and memory sizing for a provided deployment

Name	Objective
Apply security configurations and compliance controls to meet given cloud infrastructure requirements	Given a cloud service model, apply the appropriate security automation technique to the target system, Apply an appropriate backup or restore method, Apply the appropriate ACL to the target objects to meet access requirements according to a security template, Implement account provisioning techniques in a cloud environment to meet security and policy requirements, Given a cloud service model, implement defined security technologies to meet given security requirements

Name	Objective
Maintain and monitor cloud environment for proper operation	Given a specific environment and related data (e.g., performance, capacity, trends), apply appropriate changes to meet expected criteria, Determine when to provision/ deprovision cloud resources, Determine the appropriate allocation of cloud resources, Apply the appropriate steps to ensure business continuity, Apply the appropriate maintenance automation technique to the target objects, Apply elements required to extend the infrastructure into a given cloud solution, Given a cloud service model, determine the appropriate methodology to apply given patches, Analyze defined metrics to determine the presence of an abnormality and/or forecast future needed cloud resources, Analyze testing results to determine if the testing is successful in relation to given system requirements, Given a scenario, apply the appropriate automation tools to update cloud elements, Analyze the appropriate storage type and protection capability for a provided deployment

Name	Objective
Apply proper troubleshooting techniques to remediate problems	Given a scenario, explain the troubleshooting methodology, Given a scenario, troubleshoot a deployment issue, Given a scenario, troubleshoot a security issue, Given a scenario, troubleshoot automation/ orchestration issues, Given a scenario, troubleshoot common capacity issues, Given a scenario, troubleshoot connectivity issues

MMG116 - Quality Control & Inspection

Overview

Department
Manufacturing

Course 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.

Academic Level (Course Level)
Undergraduate

Instructional Methods
Traditional

Effective Start Term
Fall 2025

Credits

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
15

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
15

Course Learning Outcomes

Name
The student will be able to perform first piece inspection

Name
The student will be able to inspect surface finishes

Name
The student will be able to inspect parts using radius gauges

Name
The student will be able to inspect parts using angle gauges

Name
The student will be able to inspect parts using dial indicators

Name
The student will be able to measure parts using vernier measuring tools

Name
The student will be able to measure parts using special micrometers

Name
The student will be able to measure parts using telescoping gauges

Name
The student will be able to measure parts with height gauges

Name
The student will be able to measure threads

Name
The student will be able to measure parts using small hole gauges

Name
The student will be able to measure parts using dial calipers

Name
The student will be able to measure parts using outside micrometers

Name
The student will be able to measure parts using depth micrometers

Name
The student will be able to inspect parts with comparison measuring tools

Name
The student will be able to determine what to do with a part that does not meet specifications

Name
The student will be able to clean and store precision measuring tools

MMG130 - Bench Work

Overview

Department
Manufacturing

Course 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.

Academic Level (Course Level)
Undergraduate

Effective Start Term
Fall 2024

Credits

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
30

Billing Hours

Billing Hours Min:
1

Lab Hours

Lab Hours Min:
30

Course Learning Outcomes

Name
Student will be able to conduct job hazard analysis for hand tools

Name
Student will be able to conduct job hazard analysis for power tools

Name
Student will be able to select hand tools for assigned tasks

Name
Student will be able to select power tools for assigned tasks

Name
Student will be able to lay out parts for machining using semi-precision and precision lay out practices

Name
Student will be able to drill holes using electric and pneumatic drills

Name
Student will be able to maintain pedestal grinders

Name
Student will be able to saw stock to length

Name
Student will be able to sharpen drill bits and lathe tools

Name
Student will be able to use free hand saws to cut angles and remove material

Name
Student will be able to maintain radial arm and sensitive drill press

Name
Student will be able to finish parts using electrical and pneumatic tools

Name
Student will be able to use a press to insert bushings, bearings and pins

Name
Student will be able to broach internal key ways

MMG131 - Metallurgy

Overview

Department
Manufacturing

Course 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 covered, as well as the theory behind alloys, heat treatment processes and wear resistance.

Academic Level (Course Level)
Undergraduate

Effective Start Term
Fall 2024

Credits

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
15

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
15

Course Learning Outcomes

Name
The student will be able to examine the history of iron and steel and its role in industry

Name
The student will be able to summarize the production of non-ferrous metals

Name
The student will be able to summarize the production of iron and steel

Name
The student will be able to differentiate special alloys and special steels

Name
The student will be able to investigate metallurgical processes

Name
The student will be able to anneal materials to specifications

Name
The student will be able to determine heat treating temperatures

Name
The student will be able to harden material to specifications

MMG132 - Machine Tool Processes

Overview

Department
Manufacturing

Course 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.

Academic Level (Course Level)
Undergraduate

Effective Start Term
Fall 2023

Credits

Credit Hours

Credit Hours Min:
1

Contact Hours

Contact Hours Min:
15

Billing Hours

Billing Hours Min:
1

Lecture Hours

Lecture Hours Min:
15

Course Learning Outcomes

Name
The student will be able to conduct a job hazard analysis for a machine tool shop

Name
The student will be able to analyze blueprints to layout parts to be machined

Name
The student will be able to select hand tools for assigned applications

Name
The student will be able to calculate stock size for least amount drop

Name
The student will be able to examine specifications in machinery handbooks needed to machine parts to size

Name
The student will be able to summarize preparations for machining operations

Name
The student will be able to select common machine shop mechanical hardware for assigned applications

Name
The student will be able to apply precautions needed to minimize hazards for work with lathes, mills, drills and grinders

Name
The student will be able to prescribe cutting tools for assigned operations and applications

MMG155 - CNC Lathe

Overview

Department
Manufacturing

Course 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.

Academic Level (Course Level)
Undergraduate

Instructional Methods
Traditional

Effective Start Term
Fall 2024

Credits

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
60

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
30

Lab Hours

Lab Hours Min:
30

Course Learning Outcomes

Name	Objective
The student will be able to identify the major components of the Haas SL Series Machine	Identify the machines found in the TL series TL1 TL2 TL3 TL3B TL3W TL4', Identify main components of TL series lathe machining area chuck guard hand wheels chip flow channel CNC pendant tailstock', Identify the components which are considered optional tail stock air system coolant systems', Identify the location of each of the components', Identify the function of each of the components', Identify the safety features of the TL series machines

Name	Objective
The student will be able to describe the machining area of Haas SL Series machine	Identify the function of the machining area', Describe the components of the machining area including saddle cross slide tool holding manual control hand wheels axis assembly spindle assembly chuck and tailstock', Identify the location of each of the components in the machining area', Describe the function of each the components of the machining area', Identify the components of the axis assembly servo motor ball screws ball nuts linear guides linear guide bearings', Identify the components of the spindle assembly spindle spindle motor drive belt', Compare and contrast the types of chuck found in the different types Haas SL series machines', Identify the components of the chuck cylinder master jaw top jaw tee nuts', Compare and contrast soft and hard jaws', Describe the components of the tailstock base quill and manual control hand wheel

Name	Objective
The student will be able describe the components of the air and coolant system	Describe the functions of the air system and coolant system', Identify the components of the coolant system coolant tank basket filter pump flexible coolant line', Identify the function and location of each of the components in the coolant system', Identify the types of coolant used in the coolant system', Identify the maintenance processes required by the coolant system', Identify the components of the air system filter regulator', Identify the safety precautions associated with air supply in the air system

Name The student will be able to process to operate the Haas SL Series machine	**Objective** Describe the required steps to power up the Haas SL series machine', Identify the relationship between safety and powering the machine', Describe how to set tool offsets', Describe the steps to measure the tool geometry offset', Load a program from disc and USB into the CNC memory', View a program in the CNC memory', Select a program from the CNC memory', Identify the value of viewing the program from the CNC memory before running the program', Run a program in graphics mode', Describe the role of running a program in graphics mode', Run a program using single block mode', Describe the role of running a program in single block mode', Run the CNC Haas SL series automatically', Stop the automatic machine operation', Operate the JOG HANDLE dial to move an axis', Operate the machine in handle control federate override', Operate the machine in handle control spindle speed rate override

Name The student will be able to describe the maintenance schedule for Haas Series SL machines	**Objective** Perform daily maintenance', Perform weekly maintenance', Perform monthly maintenance', Perform semi annually maintenance

Name The student will be able to operate CNC lathe to complete industry based projects	**Objective** Program the project per blueprint', Utilize basic program codes safety codes spindle codes RPM codes and feed rate codes', Utilize advanced codes M and G radius G70 G71 G02 and G03', Set tool lengths per the project requirements', Set part offsets per the project requirements', Apply CATIA concepts to design part', Utilize CATIA print in creation of part', Utilize problem solving techniques to correct inaccuracies in design

Name Student will demonstrate safety in robot work cell and machining environment

Name Student will identify/explain operation of teach pendant

Name Student will demonstrate the ability to select and run the correct program for an assigned task.

Name Student will perform routine maintenance associated with robotic machining equipment

Name Student will demonstrate Tool calibration and Reference Point calibration

Name The student will utilize a go/no go method of Quality Control to check the accuracy of the project.

MMG156 - CNC Operations

Overview

Department
Manufacturing

Course 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.

Academic Level (Course Level)
Undergraduate

Instructional Methods
Traditional

Effective Start Term
Fall 2024

Credits

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
75

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
15

Lab Hours

Lab Hours Min:
60

Course Learning Outcomes

Name
The student will be able to conduct job hazard analysis for CNC lathe and mill

Name
The student will be able to create handwritten CNC programs using G and M codes

Name
The student will be able to perform software communications between PC and CNC equipment

Name
The student will be able to enter CNC Program into control

Name
The student will be able to enter programs in MDI (manual data input)

Name
The student will be able to edit CNC programs

Name
The student will be able to perform sequence search to restart or edit programs

Name
The student will be able to execute CNC program sequences from zero or point of reference

Name
The student will be able to execute emergency stop and restart procedures

Name
The student will be able to interrupt automatic cycle mode manually to stop potential damage to part and/or machine

Name
The student will be able to orient machine axis with holding devices

Name
The student will be able to thread interior and exterior surfaces

Name
The student will be able to determine spindle speed and feed rate

Name
The student will be able to perform facing operations to rough or finish surfaces

Name
The student will be able to perform turning operations to rough or finish a surface

Name
The student will be able to adjust tool offsets

Name
The student will be able to verify CNC programs prior to executing program sequence

Name
The student will be able to bore cylindrical surfaces on CNC equipment

Name
The student will be able to power up and power down CNC machines

Name
The student will be able to plan CNC machining operations

Name
The student will be able to adjust cutter compensation to maintain accuracy of cuts

Name
The student will be able to ream holes to specification with CNC lathes and mills

MMG160 - CNC Milling I

Overview

Department
Manufacturing

Course Description
Students will gain practical experience in setting up and performing basic operations on CNC Milling machines.

Academic Level (Course Level)
Undergraduate

Instructional Methods
Traditional

Effective Start Term
Fall 2024

Credits

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
75

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
15

Lab Hours

Lab Hours Min:
60

Course Learning Outcomes

Name
Students will graphically preview tool paths.

Name
Students will demonstrate safe use of equipment.

Name
Students will demonstrate proper setup and use of tools and fixtures.

Name
Students will operate a CNC mill to process parts within specifications.

Name
Students will manually perform operations to make linear, angular and circular moves.

Name
Students will perform and document first part inspection.

Name
Students will identify when and how to change cutting tools.

Name
Students will demonstrate proper lab maintenance including cleaning.

MTH112 - College Algebra

Overview

Department
General Education

Course 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 Core Outcomes Project for this course, as approved by the Kansas Board of Regents (Transfers as MAT 1010).

Academic Level (Course Level)
Undergraduate

Effective Start Term
Fall 2025

Credits

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
45

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
45

Course Learning Outcomes

Name
Use Functional notation, including finding arithmetic combinations and compositions of functions.

Name
Recognize and distinguish between functions and relations (equations)

Name
Use concepts of symmetry, intercepts, left- and right-hand behavior, asymptotes, and transformations to sketch the graph of various types of functions (constant, linear, quadratic, absolute value, piecewise-defined, square root, cubic, polynomial, rational, exponential, and logarithmic) or relations (circle) given in description

Name
Determine the domain and range of relations and functions

Name
Write the equation that describes a function (for types given above in 3a) or circle given its description

Name
Use graphs of functions for analysis

Name
Find the inverse of a function

Name
Solve equations including literal equations, linear equations, quadratic equations by factoring and the quadratic formula, higher-order polynomial equations, equations involving rational expressions, equations involving radicals, and equations involving absolute value expressions, along with equations involving exponential or logarithmic functions

Name
Solve inequalities of the following types: linear (in one and two variables), polynomial, rational, absolute value

Name
Solve systems of inequalities by graphing

Name
Apply equations from 1s in this core outcome to real-world situations, such as depreciation, growth and decay, and max/min problems

Name
Examine and analyze data, make predictions/interpretations, and do basic modeling

Name
Solve systems of equations by various methods, including matrices

MUS110 - Music Appreciation

Overview

Department
General Education

Course 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.

Academic Level (Course Level)
Undergraduate

Instructional Methods
Face-to-Face

Effective Start Term
Fall 2024

Credits

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
45

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
45

Course Learning Outcomes

Name	Objective
Identify and describe the elements of melody, harmony, pitch, rhythm, timbre, texture, form, and dynamics.	Demonstrate a basic vocabulary of musical terms in relation to pitch durationtimbre and volume and be able to apply them to a listening example', Aurally discriminate sample selections from each historical era and identify theirrepresentative characteristics', Describe the constructive elements of the sonataallegro form and the sonatacycle

Name	Objective
Identify the expressive qualities of the elements of music through listening experiences.	Differentiate aurally between representatives of the different families of instruments', Aurally discriminate sample selections from each historical era and identify their representative characteristics

Name	Objective
Describe the general characteristics of musical genres and the relationship to their cultural/historical settings.	Describe the musical developments of the Middle Ages Renaissance BaroqueClassical Romantic and 20th Century eras with regard to religious cultural artistic and technological developments', Aurally discriminate sample selections from each historical era and identify theirrepresentative characteristics', Demonstrate a basic knowledge of the categories characteristics andrepresentative instruments in each of the families of musical instruments from theMiddle Ages to present day', Describe the relationships between instrumental development and cultural religious historical and technological developments

Name	Objective
Demonstrate knowledge of musical artists, composers, and compositions related to the context of the course.	List major music forms vocal and instrumental and representative composersfrom each historical era', Aurally discriminate sample selections by composers and compositions fromeach historical era

Name	Objective
Critically evaluate the role of music in their lives.	Describe the genres of music they experience in their day to day experiences', Evaluate a musical performance they either attend or analyze from video orsound recording

PHS110 - Physical Science

Overview

Department
General Education

Course 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.

Academic Level (Course Level)
Undergraduate

Effective Start Term
Fall 2025

Credits

Credit Hours

Credit Hours Min:
5

Contact Hours

Contact Hours Min:
105

Billing Hours

Billing Hours Min:
5

Lecture Hours

Lecture Hours Min:
45

Lab Hours

Lab Hours Min:
60

Course Learning Outcomes

Name	Objective
Explain the scientific method	Know the steps in the scientific method', Identify the scientific method at work in the development of the current model of our universe and in the development of the model of the atom', Understand the importance of mathematics and measurement in science', Distinguish between fact law theory and hypothesis', Appreciate the importance of honesty integrity and proper procedure in the reporting of scientific findings
	Understand the origin and significance of the law of universal gravitation', Understand and apply the concepts of average and instantaneous speed', Understand and apply the concept of circular motion', Understand and apply the concepts of force and Newtons laws of motion', Understand and apply the Newtons law of gravitation', Identify examples of kinetic energy and potential energy and show how they relate to the law of conservation of energy', Give examples of substances with high and low specific heat capacities and relate behaviors of these substances to their respective specific heat capacities', Give examples of heat transfer through each of the three heat transfer mechanisms conduction convection and radiation', Explain the Greenhouse effect Include an understanding of the importance of the greenhouse effect to our environment and the role of thermal and environmental pollution in the potential development of global warning', Appreciate the problems involved in the generation of electricity by solar power', Apply concepts of heat and energy to weather especially to violent storms such as tornadoes and hurricanes', Identify the fundamental source of electricity', Identify the fundamental source of magnetism', Compare and contrast Newtons Law of Gravitation for masses with Coulombs Law for electric charges', List sources of potential difference voltage', Identify the unit of measurement for electrical quantities potential difference resistance current power electric charge', Appreciate the importance of the development of superconductors', Distinguish between series and parallel circuits Identify types of circuits found in household wiring Explain the need for circuit breakers or fuses', Explain how a magnet can be made and explain how a magnet can be weakened', Appreciate the importance of electromagnetic induction and briefly outline how electricity is produced', Distinguish between and give examples of transverse waves and longitudinal waves', Know the speed of sound at room temperature and the speed of light in a vacuum', Give examples of resonance', Explain the origin of the Doppler effect and give examples of how the Doppler effect is used in our society', Identify characteristic sections of the electromagnetic spectrum and list these sections in order of increasing energy', Describe modern technology that is based on the property of total

Name	Objective
Interpret scientific data to demonstrate basic problem solving.	Use appropriate vocabulary and develop skills involved in using math formulas graphs and figures for problem solving and unit conversions

Name	Objective
Explain everyday phenomena in terms of basic physical science concepts.	Understand the fundamental difference between alpha and beta rays and gamma rays', Explain the similarity and difference among isotopes of an element Support with an example', Appreciate the importance of the strong nuclear force', Understand the difference between natural and artificial transmutation', Briefly describe the carbon - 14 dating technique Give an example Explain any problems with this method', Appreciate the risks of radiation exposure from activities in our society and natural substances in our environment', List advantages and disadvantages of future development and use of nuclear fusion to produce electric power', List four natural phenomena that are constantly at work which change the surface of our planet', Draw a crosssection of the earth and label the various layers of the earths interior', Describe the difference between dipslip and strikeslip faults', Outline the theory of Continental Drift Include evidence that supports this theory', Outline the Theory of Plate Tectonics Include evidence that supports this theory', Define ring of fire and explain its origin', Appreciate how tectonic interactions have changed the earths surface', Explain why we see only one side of the moon', Understand the origins of lunar and solar eclipses', List the nine planets of our solar system in order of increasing distance from the sun Include the location of the asteroid belt', Know two or three distinguishing characteristics of each planet', Explain why different constellations appear in the night sky at different times of the year', Compare and contrast the life cycles of small stars and larger stars', Give an estimate of the number of galaxies present in our universe', Define The Big Bang List evidence that supports the Big Bank Theory

Name	Objective
Explain and critique sciences as presented in the media.	Using the concepts from physical science critically review media sources from the general public on science topics and controversies

Name	Objective
Perform measurements using physical apparatus	Physical Science Laboratory is an investigation of the basic concept of physics and chemistry with applications to earth and space science

Name	Objective
Analyze the collected data including appropriate treatment of errors and uncertainties	Carry out suitable calculations with quantitative data recognizing when data and calculations are within a reasonable range using

Name	Objective
Generate and communicate conclusions based on the data and analysis for experimental investigations	Physical Science Laboratory is an investigation of the basic concept of physics and chemistry with applications to earth and space science

PHS115 - Introductory Astronomy

Overview

Department
General Education

Course 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).

Academic Level (Course Level)
Undergraduate

Instructional Methods
Traditional

Effective Start Term
Fall 2025

Credits

Credit Hours

Credit Hours Min:
5

Contact Hours

Contact Hours Min:
105

Billing Hours

Billing Hours Min:
5

Lecture Hours

Lecture Hours Min:
45

Lab Hours

Lab Hours Min:
60

Course Learning Outcomes

Name	Objective
The student will be able to explain the scientific method.	Know the steps in the scientific method', Distinguish between fact law theory and hypothesis

Name	Objective
The student will be able to interpret astronomical observations, demonstrate critical thinking and basic problem solving	Relate historic processes utilized to determine characteristics of light', Describe the StefanBoltzman characterization of blackbody radiation and color temperature', Characterize light particle and wave nature by the photoelectric effect and Plancks constant', Understand line spectra and how they are used to evaluate the chemical makeup of stars', Describe the production of photons from the atomic structure of chemical elements', Predict wavelengths of photons from the Bohr model', Understand the doppler effect on light and its use in motion detection', Relate the magnitude scale used to evaluate brightness of objects', Evaluate spectral distributions according to Weins displacement law', Utilize observational data and physical laws to theorize about stellar birth processes', Relate the utilization of the Einstein relation to determine lifetime of main sequence stars', Discuss and evaluate the concept of angular momentum as it relates to stellar motion', Relate observations at various wavelengths of the Galaxy to structural and physical characteristics', Discuss the nuclear magnetic resonance effect in imaging the hidden portions of the Galaxy

Name	Objective
The student will be able to explain astronomical phenomena in terms of appropriate scientific models.	Communicate important ideas from early Egyptian Greek and Ptolemaic astronomy', Describe ancient astronomical concepts', Relate stellar objects to constellations and names of constellations', Locate and follow the motions of stars on the celestial sphere', Relate seasonal changes in the sky to planetary and lunar motions', Develop a relationship between time keeping and astronomical motions', Evaluate early geocentric cosmogony in terms of planetary motion', Relate Copernican Heliocentric cosmogony to planetary motion', Describe conjunctions oppositions and elongation of planets', Relate the dismantling of early cosmogonies based on observations by Tycho Brahe', Utilize Keplers Laws to describe planetary motions that confirmed modern astronomy', Relate telescopic evidence from Galileo to heliocentric cosmogony', Describe the confirmation of Keplers Laws of Planetary motion by Newtons Laws', Evaluate gravitational forces between planetary bodies', Describe the gradual determination of the characteristics of our Galaxy and the location of earth within it', Relate observations at various wavelengths of the Galaxy to structural and physical characteristics', Discuss the nuclear magnetic resonance effect in imaging the hidden portions of the Galaxy', Describe Hubbles discovery of the expanding universe and the implications in cosmology', Evaluate galaxies based on the Hubble classification scheme', Discuss the use of standard candles in distance determination', Utilize the Hubble Law to rationalize the expansion of the universe', Discuss the groupings of the galaxies and the phenomena associated with galactic collisions', Discuss the theories for the creation of galaxies and determine which are supported by Hubble Telescope observations

Name	Objective
The student will be able to explain and critique science as presented in the media	Summarize current findings and discoveries of astronomy', Discriminate between scientific reporting and pseudosciencebased opinion writing', Justify the importance of having basic scientific literacy in modern society

	Objective
	Detail the search and discovery of the asteroids', Relate the effects of Jovian planets on the path and motion of the asteroids', Define and describe asteroidal material that approaches the earth enters the atmosphere and strikes the ground', Describe the physical and chemical information found in asteroid materials and the resulting implications for the early solar system', Describe the physical and chemical characteristics of comets and the physical process involved as they near the sun', Remark on the probable creation of cometary matter', Describe the position rotation topology and features of the eight other planets', Identify the features of the planets and satellites from optical radar radio and spacecraft images', Describe the physical features of the planets and moons such as temperature albedo and atmosphere', Describe the presence of a magnetic field ring systems or other features of interest', Detail the spacecraft and results of visits by spacecraft to the planets and moons', Indicate difficulty of ground based observation for distant planets', Describe other spacecraft and land based observation methods used in the study of planets', Classify planets as terrestrial or Jovian by physical characteristics', Identify the physical and chemical makeup of the planet interior', Understand the spectroscopic determination of planetary chemistry', Evaluate the relative abundance of chemicals in solar system objects', Describe the fundamental theories of the creation and development of the solar system', Recognize the significance of extrasolar objects and modern cosmogony', Describe the topology of the moon in terms of maria major impact craters and topological terms', Relate the observation of the tides to gravitational forces', Describe the physical properties and position of the moon', Understand current and future exploration of the lunar surface', Describe dating of lunar materials and estimates of lunar age and probable creation dynamics', Define the physical characteristics of the sun including the solar atmosphere and observational terminology', Describe sunspots and the cyclic nature of the occurrences', Understand and describe the thermonuclear processes that generate solar energy', Relate the origins of chemicals within the star from nucleosynthesis and the bearing on the creation of planetary matter', Describe the theoretical implications of neutrinos and the detection of

	Objective
Name The student will be able to effectively utilize the tools of observational astronomy	Relate the structure and function of refractive and reflective telescopes', Predict which type of telescope is best for an observation', Determine the angular resolution of a telescope', Describe the imaging process of CCD and spectrographic Astronomy', Give rational for radio telescope astronomy and advantages of orbital telescopes over the range of the electromagnetic spectrum', Differentiate between the two major types of optical telescopes', Identify the focal length objective and magnification power of a telescope', Explain different tools such as CCD Cameras Adaptive Optics Space Telescopes and Radio Astronomy are used to study the universe today

	Objective
Name The student will be able to generate and communicate conclusions based on data and analysis of observations	Make and record visual observations', Use computers when appropriate as data acquisition tools Handle and evaluate data in logical productive and meaningful ways', Carry out suitable calculations with quantitative data

PHS120 - General Physics I

Overview

Department
General Education

Course Description
Topics include mechanics — linear motion, rotational motion, force, work, energy, momentum and conservation principles; heat-temperature, ideal gas, eating 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.

Academic Level (Course Level)
Undergraduate

Instructional Methods
Traditional

Effective Start Term
Fall 2024

Credits

Credit Hours

Credit Hours Min:
5

Contact Hours

Contact Hours Min:
105

Billing Hours

Billing Hours Min:
5

Lecture Hours

Lecture Hours Min:
45

Lab Hours

Lab Hours Min:
60

Course Learning Outcomes

Name	Objective
The student will be able to evaluate situations involving Physics I topics by choosing the appropriate conceptual frameworks.	Rationalize the behavior of physical systems with Newtons first law', Understand the concept of mass and inertia and apply these concepts to correct formulations of physical systems', Rationalize the behavior of physical systems based upon Newtons third law and solve applications and correct formulations with this concept', Rationalize the behavior of and solve correct formulation and applications of mechanical systems with the concepts of frictional forces and the coefficients of static and kinetic friction

Name	Objective
The student will be able to recall relevant physical models and to successfully apply these models using techniques of symbolic and numerical analysis in order to generate solutions to problems in Physics I topics.	Recognize manipulate and convert units of measure', Determine the correct number of significant digits in a solution', Use dimensional analysis to predict a correct formulation for a solution

Name	Objective
The student will be able to manipulate, and solve applications in linear motion with constant acceleration both numerically and graphically	Derive fundamental relationships for displacement velocity and acceleration', Solve applications involving displacement', Determine the average velocity of a particle', Graphically interpret the average velocity of particles', Determine the instantaneous velocity of a particle', Graphically interpret the instantaneous velocity of particles', Find the acceleration of a particle', Analyze particles in one dimensional motion with constant acceleration', Determine the behavior of freely falling bodies

Name	Objective
The student will be able to describe and analyze two dimensional motion with vector algebra	Add subtract multiply and divide vectors in two dimensions', Represent velocity and acceleration of a particle as vector components and resultants', Decompose vector resultants into components', Describe projectile motion as a function of time distance velocity vectors graphs', Derive fundamental equations of two dimensional motion from linear kinematic expressions', Solve application problems involving two dimension motion', Comprehend and correctly formulate functions relating work to mechanical motion to solve applications of physical systems', Comprehend and correctly formulate functions relating kinetic energy to mechanical motion and to solve applications of the mechanical systems', Comprehend and correctly formulate functions relation potential to mechanical motion to solve applications of physical systems', Rationalize the behavior of mechanical systems and energy of the systems by the Law of Conservation of Mechanical Energy', Correctly formulate and solve applications of conservative and nonconservative forces in mechanical systems', Understand correctly formulate and solve applications for harmonic motion with Hooks Law', Rationalize correctly formulate and solve applications by the WorkEnergy theorem', Comprehend correctly formulate and solve applications related to power', Solve applications of mechanical systems where work is done by varying force

Name	Objective
The student will be able to think critically by utilizing problem solving techniques to evaluate and analyze context rich, multi-step problems in Physics I topics, selecting relevant information, selecting an approach to solving the problem and carrying out the analysis needed to generate and communicate solution(s).	Comprehend and correctly formulate functions relating momentum to mechanical motion to solve applications of physical systems in motion', Comprehend and correctly formulate functions relating impulse to a particle and to solve applications of physical systems', Rationalize impulse and momentum of a particle by the law of Conservation of Momentum and solve applications of physical systems', Comprehend and correctly apply the concepts involved in collisions to physical systems', Comprehend and correctly formulate functions relating center of gravity and center of mass to mechanical motion to solve applications of physical systems

Name	Objective
The student will acquire knowledge and understanding of gravitation and circular motion.	Understand and solve applications of angular motion', Utilize the centripetal force concept in applications', Utilize Newtons law of gravitation in applications

Name	Objective
The student will acquire knowledge and understanding of rotational dynamics and equilibrium.	Solve applications involving torque and equilibrium', Determine the center of gravity of objects and systems of objects', Employ concepts of torque angular acceleration and momentum and rotational kinetic energy to applications

Name	Objective
The student will acquire knowledge and understanding of solids and fluids.	Identify the states of matter', Solve applications of density and pressure of liquids and gases', Apply Archimedes principle to buoyancy problems', Solve applications involving surface tension capillarity and viscosity

Name	Objective
The student will acquire knowledge and understanding of temperature, heat and state equations.	Employ the concept of temperature for measurements', Evaluate solids for thermal expansion', Employ the concept of heat and heat transfer mechanisms in solving applications', Employ the concept of heat capacity and later heat in energy transformations', Evaluate perfect gas properties using the Ideal Gas Law

Name
The student will acquire knowledge and understanding of thermodynamics

Name	Objective
The student will acquire knowledge and understanding of vibrations and wave motion.	Solve applications of Hooks Law', Evaluate material for elastic potential energy', Simple harmonic and uniform circular motion solutions', Evaluate the motion of a pendulum', Evaluate applications of frequency amplitude and wavelength

Name	Objective
The student will be able to perform measurement using physical apparatus, analyze the collected data including appropriate treatment of errors and uncertainties, generate and communicate conclusions based on the data and analysis for experimental investigations in Physics I topic.	Develop the ability to carefully record with measurement apparatus and analyze the resulting data with appropriate attention to errors and uncertainties', Identify and develop teamwork skills including group problem solving consensus building and selfsupervision', Identify and develop productive work habits including attention to detail task completion keeping an orderly work area and using appropriate care with laboratory apparatus

PHS125 - General Physics II

Overview

Department
General Education

Course 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.

Academic Level (Course Level)
Undergraduate

Instructional Methods
Traditional

Effective Start Term
Fall 2024

Credits

Credit Hours

Credit Hours Min:
5

Contact Hours

Contact Hours Min:
105

Billing Hours

Billing Hours Min:
5

Lecture Hours

Lecture Hours Min:
45

Lab Hours

Lab Hours Min:
60

Course Learning Outcomes

Name	Objective
The student will be able to evaluate situations involving Physics II topics by choosing the appropriate conceptual frameworks.	Illustrate and describe the attractive and repulsive electrical forces', Describe insulators and conductors', Solve applications of Coulombs Law', Solve applications with the Principle of Superposition', Analyze the forces between two or more point charges in electric fields', Describe electrical field lines and illustrate by example

Name	Objective
The student will be able to recall relevant physical models and to successfully apply these models using techniques of symbolic and numerical analysis in order to generate solutions to problems in Physics II topics.	Solve the potential of an electrical field', Evaluate the potential difference expression for the change in potential and', velocity of charged particles', Calculate the electrical potential due to point charges', Determine the work in moving point charges in a potential gradient', Solve expressions for capacitance in applications', Determine the charge of capacitor surfaces', Analyze series and parallel capacitive circuits', Determine the energy in capacitive circuits

Name
The student will be able to think critically by utilizing problem solving techniques to evaluate and analyze context rich, multistep problems in Physics II topics, selecting relevant information, selecting an approach to solving the problem and carry out the analysis needed to generate and communicate solution(s).

Name	Objective
The student will be able to perform measurements using physical apparatus, analyze the collected data including appropriate treatment of errors and uncertainties, generate and communicate conclusions based on the data and analysis for experimental investigations in Physics II topics.	Develop the ability to carefully record with measurement apparatus and analyze the resulting data with appropriate attention to errors and uncertainties', Identify and develop teamwork skills including group problem solving consensus building and selfsupervision', Identify and develop productive work habits including attention to detail task completion keeping an orderly work area and using appropriate care with laboratory apparatus

PSY101 - General Psychology

Overview

Department
General Education

Course 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.

Academic Level (Course Level)
Undergraduate

Effective Start Term
Fall 2025

Credits

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
45

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
45

Course Learning Outcomes

Name
Identify historical foundations and current trends in psychology

Name
Distinguish methods of research in psychology

Name
Identify the biological basis of behavior including physiology of the brain

Name
Distinguish principles and theories of learning and cognition

Name
Recognize theories and applications of motivation and emotion

Name
Demonstrate an understanding of human life span development

Name
Identify the major theories of personality

Name
Recognize categories of psychological disorders and treatments

Name
Recognize the major theories and findings in social psychology

PSY110 - Child Psychology

Overview

Department
General Education

Course 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.

Academic Level (Course Level)
Undergraduate

Instructional Methods
Traditional

Effective Start Term
Fall 2025

Credits

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
45

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
45

Course Learning Outcomes

Name Differentiate developmental theories and research methods.	**Objective** Gain an appreciation of the scientific basis of human development from conception through infancy and childhood', Identify the prominent child psychologists in the field', Develop skills in evaluating prevalent theories of developmental psychology as applies to child development', Be familiar with research methods used in child psychology
Name Explain foundational concepts and terminology appropriate to development of a child.	**Objective** Identify the major domains of development in child psychology', Develop an understanding of the current trends in child psychology', Gain an understanding of the Nature vs Nurture concept
Name The student will gain an understanding of the developmental process that occurs from conception to infancy	**Objective** Identify the genetic foundations of development', Gain an awareness of the interaction of heredity and the environment', Understand the course of prenatal development hazards and prenatal care', Understand the birth process and the postpartum period
Name Describe the social and emotional development of a child	**Objective** Identify the attachment and temperament stages in infancy', Understand the role of emotions in socialemotional development', Discuss the importance of family birth order and socialization agents in socialemotional development', Identify the theories of identity and gender development', Be familiar with the impact of stress and mental health issues commonly seen in children adolescents', Examine the progression of peer relationships throughout childhood adolescence

Name	Objective
Summarize cognitive and neurological development of a child	Summarize the development of the brain structures and functions', Understand Piagets Vygotskys and the Information Processing theories of cognitive development', Trace the pathway for language acquisition and key milestones of development', Gain an understanding of intellectual development intelligence theories and the use of intelligence measures', Gain an understanding of the components of critical thinking and problem solving

Name	Objective
Explain the physical development of a child	Be familiar with neonatal reflexes', Trace the course of sensory development', Summarize the course of motor development and identify the major milestones in motor skills', Gain an understanding of the Biopsychosocial influences on physical development', Examine the issues of health exercise and obesity in children adolescents', Discuss the physical changes that occur during puberty

Name	Objective
Evaluation special areas of development and their potential impact on childhood growth and development	Explore the influence of early childhood education and the impact on development', Examine the effects of childhood abuse and neglect on development', Evaluate the types of psychopathology in childhood and effective courses of education and treatment', Understand the various family dynamics family structures and parenting styles and how they affect development', Evaluate the types of childcare and its qualities', Be familiar with the explanations for substance abuse and delinquent behavior in children adolescents', Gain an understanding of the different methods for disciplining and modifying behavior', Be aware of the importance of cultural diversity in development

PSY120 - Developmental Psychology

Overview

Department
General Education

Course 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.

Academic Level (Course Level)
Undergraduate

Instructional Methods
Traditional

Effective Start Term
Fall 2025

Credits

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
45

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
45

Course Learning Outcomes

Name	Objective
Distinguish among developmental theories	Identify the periods of development and developmental domains across the lifespan', Develop skills in evaluating prevalent theories of developmental psychology', Explain the importance of studying lifespan development', Discuss the contemporary concerns and developmental issues

Name	Objective
Identify research methods in development	Gain an appreciation of the scientific study of human development from conception to death', Be familiar with the special research designs used to study development Understand how to conduct ethical research

Name	Objective
Describe social and emotional development throughout the lifespan	Identify the attachment and temperament stages', Chart the qualities of child care', Identify the components of emotional and personality development in early childhood', Be familiar with Ericksons theory of Psychosocial development', Match the various parenting styles', Discuss the importance of sibling relationship and birth order', Identify the unique issues of the changing family in a changing society', Identify the components of emotional and personality development in middle and late childhood', Explain the concept of gender and how it is developed', Explore how family and peers influence development', Be familiar with the changes of the brain in adolescence', Describe parentadolescent conflict', Discuss the importance of identity and be familiar with the major theories of identity development in adolescence', Be familiar with the unique concerns of adolescent delinquency and mental health issues', Describe the components of successful intervention programs for addressing adolescent behavior and mental health issues', Be familiar with how attachment styles can influence adult relationships', Identify the different theories of love', Be familiar with the different lifestyles of young adulthood', Describe the challenges and strategies for coping with marriage divorce and transitioning into parenthood', Discuss careers and work and how they change during this time', Be familiar with the unique concerns of careers work and leisure in middle adulthood', Describe the different research studies on personality development in middle adulthood', Be familiar with the unique transitions in relationships in middle adulthood particularly empty nest sandwich generation and retirement', Describe the unique mental health issues of aging including understanding dementia and the dementia related issues Alzheimers Parkinsons', Understand the theories of successful aging

Name	Objective
Explain cognitive development throughout the lifespan	Understand Piagets Preoperational stage of cognitive development', Understand Vygotskys and the Information Processing theories of cognitive development', Chart the course of language development', Review the variations of early childhood education', Be familiar with Piagets theory of cognitive development', Define language and describe the theories of language development', Evaluate the types of disabilities and education', Define intelligence and be familiar with the different theories of intelligence', Explain the use and misuse of IQ tests', Review the contemporary approaches to education in middle and late childhood', Discuss cognitive changes that occur in thinking abilities during adolescence', Describe the components of postformal thought', Identify the cognitive changes in middle adulthood particularly related to intelligence and memory', Be familiar with cognitive functioning in aging and how to preserve cognitive functions

Name Identify physical development throughout the lifespan	**Objective** List the reflexes', Compare gross and fine motor skills', Gain an understanding of sensory and perceptual development', Discuss the physical changes of development in early childhood', Gain an understanding of nutritional needs and the importance of exercise', Examine illness and disease that is common at different developmental periods', Identify the physical changes and health in middle and late childhood', List physical changes including those that occur during puberty and the outcomes of the onset of puberty', Describe important concepts related to adolescent health including sleep substance abuse and eating disorders', Compare the transition from adolescence with adulthood', Identify the changes in physical development in early adulthood and the impact of lifestyle choices on later physical development', Be familiar with the unique issues of sexuality and sexual behavior in young adulthood', List physical changes that occur in middle adulthood', Identify stress symptoms and how to more effectively deal with stress', Understand the different theories of aging', Describe the physical changes with aging', Be familiar with the unique health issues of aging and how to maintain health and wellbeing

Name Describe the processes of death and dying	**Objective** Defining death and life death issues', Be familiar with the grieving process and the process of death and dying', Understand the sociohistorical and cultural contexts of death', Be familiar with different coping strategies when facing death

REL101 - New Testament

Overview

Department
General Education

Course Description
This course is an introduction to history, literature and culture that gave rise to the New Testament from an objective and analytical approach.

Academic Level (Course Level)
Undergraduate

Instructional Methods
Traditional

Effective Start Term
Fall 2024

Credits

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
45

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
45

Course Learning Outcomes

Name
Summarize the content and context of the New Testament.

Name
Distinguish among the various genres represented in the New Testament.

Name
Apply the tools, methods, and results of academic Biblical scholarship to New Testament texts.

Name
Analyze New Testament texts against the backdrop of Jewish, Greek, and/or Roman worlds.

Name
Evaluate basic questions about the role of the New Testament.

REL130 - World Religions

Overview

Department
General Education

Course 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.

Academic Level (Course Level)
Undergraduate

Effective Start Term
Fall 2024

Credits

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
45

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
45

Course Learning Outcomes

Name
Identify principal texts, central religious figures and ideas of major world religions such as Hinduism, Buddhism, Christianity, Judaism and Islam.

Name
Demonstrate knowledge of beliefs, practices, and values of major world religions.

Name
Describe historical narratives and cultural expressions of major world religions.

Name
Analyze concepts and issues basic to the study of major world religions in a comparative framework.

Name
Explain the implications of beliefs and practices with respect to religions in a religiously diverse world.

Name
Evaluate definitions of religion.

SPH101 - Public Speaking

Overview

Department
General Education

Course 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.

Academic Level (Course Level)
Undergraduate

Effective Start Term
Fall 2024

Credits

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
45

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
45

Course Learning Outcomes

Name Determine the Purpose of Oral Discourse	**Objective** Identify the various purposes for discourse', Identify the similarities and differences among various purposes', Understand that different contexts require differing purposes', Generate a specific purpose relevant to the context when given a general purpose

Name
Choose a Topic and Restrict It According to the Purpose and the Audience

Objective
Identify a subject that is relevant to the speakers role knowledge concerns and interests', Narrow the topic adapting it to the purpose and time constraints for communicating', Adapt the treatment of the topic to the context for communication

Name
Fulfill the Purpose of Oral Discourse - Formulate a thesis statement

Objective
Use a thesis as a planning tool', Summarize the central message in a manner consistent with the purpose

Name
Fulfill the Purpose of Oral Discourse -Provide adequate support materials

Objective
Demonstrate awareness of available types of support', Locate appropriate support materials', Select appropriate support based on the topic audience setting and purpose

Name
Fulfill the Purpose of Oral Discourse -Select a suitable organizational pattern

Objective
Demonstrate awareness of alternative organizational patterns', Demonstrate understanding of the functions of organizational pattern including the following 1Clarification of information 2Facilitation of listener comprehension 3Change of attitude4Relational interaction5Selection of organizational patterns that are appropriate to the topic audience context and purpose

Name
Fulfill the Purpose of Oral Discourse -Demonstrate careful choice of words

Objective
Demonstrate understanding of the power of language', Select words that are appropriate to the topic audience purpose context and speaker', Use word choice in order to express ideas clearly to create and maintain interest and to enhance the speakers credibility', Select words that avoid sexism racism and other forms of prejudice

Name
Fulfill the Purpose of Oral Discourse - Provide effective transitions

Objective
Demonstrate understanding of the types and functions of transitions', Use transitions to accomplish the following 1Establish connectedness 2Signal movement from one idea to another 3Clarify relationships among ideas

Name
Employ Vocal Variety in Rate, Pitch, and Intensity

Objective
Use vocal variety to heighten and maintain interest', Use a rate that is suitable to the message occasion and receiver', Use pitch within the speakers optimum range to clarify and to emphasize', Use intensity appropriate for the message and audible to the audience

Name
Articulate Clearly

Objective
Demonstrate knowledge of the sounds of the American English language', Use the sounds of the American English language

Name
Employ Language Appropriate to the Designated Audience

Objective
Employ language that enhances the speakers credibility promotes the purpose and the receivers understanding', Demonstrate that the use of technical vocabularies slang idiomatic language and regionalisms may facilitate understanding when communicating with others who share meanings for those terms but can hinder can hinder understanding in those situations where meanings are not shared', Use standard pronunciatin', Use standard grammar', Use language at the appropriate level of abstraction or generality', Use a conversational mode through selfpresentation and response to feedback

Name	Objective
Demonstrate Nonverbal Behavior that Supports the Verbal Message	Use appropriate paralanguage extra verbal elements of voice such as emphasis pause tone etc that achieves congruence and enhances the verbal intent', Use appropriate kinesic elements posture gesture and facial expression that achieve congruence and enhance the verbal intent', Use appropriate proxemic elements interpersonal distance and spatial arrangement that achieve congruence and enhance the verbal intent', Use appropriate clothing and ornamentation that achieve congruence and enhance the verbal intent', Select and use an appropriate presentational aid to enhance audience understanding and increase impact of spoken message

Name	Objective
Recognize Main Ideas	Distinguish ideas fundamental to the thesis from material that supports those ideas', Identify transitional organizational and nonverbal cues that direct the listener to the main ideas', Identify the main ideas in structured and unstructured discourse

Name	Objective
Identify Supporting Details	Identify supporting details in spoken messages', Distinguish between those ideas that support the main ideas and those that do not', Determine whether the number of supporting details adequately develops each main idea

Name	Objective
Recognize Explicit Relationships among Ideas	Demonstrate an understanding of the types of organizational or logical relationships', Identify transitions that suggest relationships', Determine whether the asserted relationship exists

Name	Objective
Recall Basic Ideas and Details	Determine the goal for listening', State the basic cognitive and affective contents after listening

Name	Objective
Attend with an Open Mind	Demonstrate an awareness of personal ideological and emotional biases', Demonstrate awareness that each person has a unique perspective', Demonstrate awareness that ones knowledge experience and emotions affect listening', Use verbal and nonverbal behaviors that demonstrate willingness to listen to messages when variables such as setting speaker or topic may not be conducive to listening

Name	Objective
Perceive the speaker's Purpose and Organization of Ideas and Information	Identify the speakers purpose', Identify the organization of the speakers ideas and information

Name	Objective
Discriminate between Statements of Fact and Statements of Opinion	Distinguish between assertions that are verifiable and those that are not

Name	Objective
Distinguish Between emotional and Logical Arguments	Demonstrate an understanding that arguments have both emotional and logical dimensions', Identify the logical characteristics of an argument', Identify the emotional characteristics of an argument', Determine whether the argument is predominantly emotional or logical

Name	Objective
Detect Bias and Prejudice	Identify instances of bias and prejudice in a spoken message', Specify how bias and prejudice may affect the impact of a spoken message

Name	Objective
Recognize the Speaker's Attitude	Identify the direction intensity and salience of the speakers attitude as reflected by the verbal messages', Identify the direction intensity and salience of the speakers attitude as reflected by the nonverbal messages

Name	Objective
Synthesize and Evaluate by Drawing logical Inferences and Conclusions	Draw relationships between prior knowledge and the information provided by the speaker', Demonstrate an understanding of the nature of inference', Identify the types of verbal and nonverbal information', Draw valid inferences from the information', Identify the information as evidence to support views', Assess the acceptability of evidence', Identify patterns of reasoning and judge the validity of arguments', Analyze the information and inferences in order to draw conclusions

Name	Objective
Recall the Implications and Arguments	Identify the arguments used to justify the speakers position', State both the overt and implied arguments', Specify the implications of these arguments for the speaker audience and society at large

Name	Objective
Recognize Discrepancies between the Speaker's Verbal and Nonverbal Messages	Identify when the nonverbal signals contradict the verbal message', Identify when the nonverbal signals understate or exaggerate the verbal message', Identify when the nonverbal message is irrelevant to the verbal message

Name	Objective
Employ Active Listening Techniques When Appropriate	Identify the cognitive and affective dimensions of a message', Demonstrate comprehension by formulating questions that clarify or qualify the speakers content and affective intent', Demonstrate comprehension by paraphrasing the speakers message

SPH111 - Interpersonal Communication

Overview

Department
General Education

Course 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.

Academic Level (Course Level)
Undergraduate

Effective Start Term
Fall 2025

Credits

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
45

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
45

Course Learning Outcomes

Name	Objective
Demonstrate an ability to apply effective communication techniques within a variety of contexts	Define basic principles of interpersonal communication', Differentiate between appropriate and inappropriate messages', Participate in feedback activities', Evaluate the factors affecting the accuracy of others communication', Explain methods of improving social perception including cultural and social considerations

Name	Objective
Demonstrate an understanding of various effective conflict management skills	Summarize the basic types of conflict', Recognize inappropriate methods of addressing conflict', Examine the guidelines for successfully managing conflict

Name	Objective
Demonstrate an understanding of the impact of gender and culture on interpersonal communication	Identify different types of relationships', Discover appropriate ways of establishing maintaining and ending relationships', Cite guidelines of disclosing and describing feelings

Name	Objective
Demonstrate an ability to analyze effective listening habits and skills	Practice focusing attention through active listening skills', Employ devices for remembering information', Distinguish between fact and inference

Name	Objective
Evaluate the role of verbal and nonverbal messages in interpersonal communication	Discover the functions of nonverbal communication', Point out how clothing color touch and other factors affect self presentation', Explain ways to implement cultural and gender considerations into verbal and nonverbal communication

Name	Objective
Recognize the role of perception of self and others in interpersonal communication	Trace analyze and evaluate selfconcept formation', Recognize the uses of language in human communication', Utilize emphatic response skills - clarifying and helping responses - while eliminating inappropriate ones

TAS124 - Electrical I

Overview

Department
Applied Technologies

Course 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.

Academic Level (Course Level)
Undergraduate

Effective Start Term
Fall 2025

Credits

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
60

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
30

Lab Hours

Lab Hours Min:
30

Course Learning Outcomes

Name	Objective
The student will be able to complete service work orders.	Complete work order to include customer information vehicle identifying information customer concern related service history cause and correction', Research applicable vehicle and service information such as electricalelectronic system operation vehicle service history service precautions and technical service bulletins', Locate and interpret vehicle and major component identification numbers

Name	Objective
The student will be able to describe the relationship between voltage, ohms and amperage.	Diagnose electricalelectronic integrity for series parallel and seriesparallel circuits using principles of electricity Ohms Law', Demonstrate the proper use of a digital multimeter DMM during diagnosis of electrical circuit problems including source voltage voltage drop current flow and resistance

Name	Objective
The student will be able to perform basic electrical circuit repairs.	Remove and replace terminal end from connector replace connectors and terminal ends', Perform solder repair of electrical wiring

Name	Objective
The student will be able to identify electrical system faults.	Identify and interpret electrical/ electronic system concern determine necessary action', Check electrical circuits with a test light determine necessary action', Check electrical circuits using fused jumper wires determine necessary action', Inspect and test fusible links circuit breakers and fuses determine necessary action', Inspect and test switches connectors relays solid state devices and wires of electricalelectronic circuits perform necessary action

Name	Objective
The student will be able to identify basic wiring diagram symbols, components, and legend information.	Use wiring diagrams during diagnosis of electrical circuit problems

Name	Objective
The student will be able to perform basic electrical circuit measurements using a DVOM.	Demonstrate the proper use of a digital multimeter DMM during diagnosis of electrical circuit problems including source voltage voltage drop current flow and resistance', Check electrical circuits with a test light determine necessary action', Check electrical circuits using fused jumper wires determine necessary action', Inspect and test fusible links circuit breakers and fuses determine necessary action', Inspect and test switches connectors relays solid state devices and wires of electricalelectronic circuits perform necessary action

Name	Objective
The student will be able to describe basic circuit characteristics of series, parallel and series parallel circuits.	Identify and interpret electricalelectronic system concern determine necessary action', Diagnose electricalelectronic integrity for series parallel and seriesparallel circuits using principles of electricity Ohms Law

TAS131 - Engine Performance I

Overview

Department
Applied Technologies

Course 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.

Academic Level (Course Level)
Undergraduate

Effective Start Term
Fall 2025

Credits

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
60

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
30

Lab Hours

Lab Hours Min:
30

Course Learning Outcomes

Name	Objective
The student will be able tocomplete work order and check history	Complete work order to include customer information vehicle identifying information customer concern related service history cause and correction', Research applicable vehicle and service information such as engine management system operation vehicle service history service precautions and technical service bulletins', Locate and interpret vehicle and major component identification numbers

Name	Objective
The student will be able to identify engine mechanical integrity	Identify and interpret engine performance concern determine necessary action', Inspect engine assembly for fuel oil coolant and other leaks determine necessary action', Diagnose abnormal engine noise or vibration concerns determine necessary action', Diagnose abnormal exhaust color odor and sound determine necessary action', Perform engine absolute vacuumboost manifold pressure tests determine necessary action', Perform cylinder power balance test determine necessary action', Perform cylinder cranking and running compression tests determine necessary action', Perform cylinder leakage test determine necessary action', Diagnose engine mechanical electrical electronic fuel and ignition concerns determine necessary action', Perform cooling system pressure tests check coolant condition inspect and test radiator pressure cap coolant recovery tank and hoses perform necessary action', Verify correct camshaft timing', Retrieve and record diagnostic trouble codes OBD monitor status and freeze frame data clear codes when applicable', Access and use service information to perform stepbystep diagnosis', Inspect and test crankshaft and camshaft position sensors perform necessary action

Name
The student will be able toexplore the fundamentals of fuel system theory

Name	Objective
The student will be able to identify fuel system concerns	Diagnose engine mechanical electrical electronic fuel and ignition concerns determine necessary action', Access and use service information to perform stepbystep diagnosis', Perform active tests of actuators using a scan tool determine necessary action', Diagnose hot or cold nostarting hard starting poor driveability incorrect idle speed poor idle flooding hesitation surging engine misfire power loss stalling poor mileage dieseling and emissions problems determine necessary action', Check fuel for contaminants and quality determine necessary action', Inspect and test fuel pumps and pump control systems for pressure regulation and volume perform necessary action', Replace fuel filters', Inspect throttle body air induction system intake manifold and gaskets for vacuum leaks andor unmetered air', Inspect and test fuel injectors', Verify idle control operation

Name
The student will be able toexplore the fundamentals of ignition theory

Name	Objective
The student will be able to identify ignition system concerns	Diagnose engine mechanical electrical electronic fuel and ignition concerns determine necessary action', Retrieve and record diagnostic trouble codes OBD monitor status and freeze frame data clear codes when applicable', Access and use service information to perform stepbystep diagnosis', Perform active tests of actuators using a scan tool determine necessary action', Diagnose ignition system related problems such as nostarting hard starting engine misfire poor driveability spark knock power loss poor mileage and emissions concerns determine necessary action', Inspect and test ignition primary and secondary circuit wiring and solid state components test ignition coils perform necessary action', Inspect and test crankshaft and camshaft position sensors perform necessary action', Inspect test andor replace ignition control module powertrainengine control module reprogram as necessary

Name	Objective
The student will be able toidentify induction system concerns	Perform engine absolute vacuumboost manifold pressure tests determine necessary action', Retrieve and record diagnostic trouble codes OBD monitor status and freeze frame data clear codes when applicable', Access and use service information to perform stepbystep diagnosis', Perform active tests of actuators using a scan tool determine necessary action', Diagnose hot or cold nostarting hard starting poor driveability incorrect idle speed poor idle flooding hesitation surging engine misfire power loss stalling poor mileage dieseling and emissions problems determine necessary action', Inspect throttle body air induction system intake manifold and gaskets for vacuum leaks andor unmetered air', Verify idle control operation

Name	Objective
The student will be able to identify exhaust system concerns	Diagnose abnormal exhaust color odor and sound determine necessary action', Perform engine absolute vacuumboost manifold pressure tests determine necessary action', Retrieve and record diagnostic trouble codes OBD monitor status and freeze frame data clear codes when applicable', Diagnose hot or cold nostarting hard starting poor driveability incorrect idle speed poor idle flooding hesitation surging engine misfire power loss stalling poor mileage dieseling and emissions problems determine necessary action

TAS133 - Brakes I

Overview

Department
Applied Technologies

Course 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.

Academic Level (Course Level)
Undergraduate

Effective Start Term
Fall 2025

Credits

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
60

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
30

Lab Hours

Lab Hours Min:
30

Course Learning Outcomes

Name	Objective
Perform system pressure and travel calculations utilizing Pascal's Law	Complete work order to include customer information vehicle identifying information customer concern related service history cause and correction', Research applicable vehicle and service information such as brake system operation vehicle service history service precautions and technical service bulletins', Locate and interpret vehicle and major component identification numbers

Name	Objective
Determine appropriate system pressure tests utilizing service specifications	Diagnose pressure concerns in the brake system using hydraulic principles Paschals Law', Measure brake pedal height travel and free play as applicable determine necessary action', Check master cylinder for internalexternal leaks and proper operation determine necessary action', Remove bench bleed and reinstall master cylinder', Diagnose poor stopping pulling or dragging concerns caused by malfunctions in the hydraulic system determine necessary action', Inspect brake lines flexible hoses and fittings for leaks dents kinks rust cracks bulging or wear tighten loose fittings and supports determine necessary action', Replace brake lines hoses fittings and supports', Fabricate brake lines using proper material and flaring procedures double flare and ISO types', Select handle store and fill brake fluids to proper level', Inspect test andor replace metering holdoff proportioning balance pressure differential and combination valves', Inspect test andor replace components of brake warning light system', Bleed andor flush brake system', Test brake fluid for contamination

Name	Objective
Determine brake system concerns and necessary actions	Identify and interpret brake system concern determine necessary action', Research applicable vehicle and service information such as brake system operation vehicle service history service precautions and technical service bulletins', Locate and interpret vehicle and major component identification numbers

Name	Objective
Diagnose poor stopping, pulling or dragging concerns caused by malfunctions in the hydraulic system	Measure brake pedal height travel and free play as applicable determine necessary action', Check master cylinder for internalexternal leaks and proper operation determine necessary action', Remove bench bleed and reinstall master cylinder', Diagnose poor stopping pulling or dragging concerns caused by malfunctions in the hydraulic system determine necessary action', Inspect brake lines flexible hoses and fittings for leaks dents kinks rust cracks bulging or wear tighten loose fittings and supports determine necessary action', Replace brake lines hoses fittings and supports', Fabricate brake lines using proper material and flaring procedures double flare and ISO types', Select handle store and fill brake fluids to proper level', Inspect test andor replace metering holdoff proportioning balance pressure differential and combination valves', Inspect test andor replace components of brake warning light system

Name	Objective
Determine how to inspect, fabricate and/or replace brake lines and hoses	Inspect brake lines flexible hoses and fittings for leaks dents kinks rust cracks bulging or wear tighten loose fittings and supports determine necessary action', Replace brake lines hoses fittings and supports', Fabricate brake lines using proper material and flaring procedures double flare and ISO types', Select handle store and fill brake fluids to proper level

Name	Objective
Determine the service specifications pertaining to the removal, cleaning and refinishing procedures on brake drums	Remove clean inspect and measure brake drums determine necessary action', Refinish brake drum measure final drum diameter

Name	Objective
Apply drum brake repair and replacement procedures	Remove clean and inspect brake shoes springs pins clips levers adjustersselfadjusters other related brake hardware and backing support plates lubricate and reassemble', Inspect and install wheel cylinders', Preadjust brake shoes and parking brake install brake drums or drumhub assemblies and wheel bearings', Install wheel torque lug nuts and make final checks and adjustments

Name	Objective
Diagnose poor stopping noise vibration, pulling, grabbing, dragging or pedal pulsation concerns on disc-brake vehicles	Diagnose poor stopping noise pulling grabbing dragging or pulsation concerns determine necessary action', Remove caliper assembly inspect for leaks and damage to caliper housing determine necessary action', Clean and inspect caliper mounting and slidespins for operation wear and damage determine necessary action

Name	Objective
Determine disc brake repair and replacement procedures	Remove inspect and replace pads and retaining hardware determine necessary action', Disassemble and clean caliper assembly inspect parts for wear rust scoring and damage replace seal boot and damaged or worn parts', Reassemble lubricate and reinstall caliper pads and related hardware seat pads and inspect for leaks', Clean inspect and measure rotor thickness lateral runout and thickness variation determine necessary action', Remove and reinstall rotor', Check brake pad wear indicator system operation determine necessary action

Name	Objective
Determine how to caliper piston retractions	Retract caliper piston on an integrated parking brake system

Name	Objective
Diagnose wheel bearing noise, wheel shimmy and vibration concerns	Diagnose wheel bearing noises wheel shimmy and vibration concerns determine necessary action

Name	Objective
Determine how to remove, inspect and replace bearing and hub assemblies	Remove clean inspect repack and install wheel bearings and replace seals install hub and adjust bearings', Check parking brake cables and components for wear binding and corrosion clean lubricate adjust or replace as needed', Check parking brake and indicator light system operation determine necessary action', Check operation of brake stop light system determine necessary action', Replace wheel bearing and race', Inspect and replace wheel studs', Remove and reinstall sealed wheel bearing assembly

TAS136 - Suspension and Steering I

Overview

Department
Applied Technologies

Course 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.

Academic Level (Course Level)
Undergraduate

Effective Start Term
Fall 2025

Credits

Credit Hours

Credit Hours Min:
3

Contact Hours

Contact Hours Min:
60

Billing Hours

Billing Hours Min:
3

Lecture Hours

Lecture Hours Min:
30

Lab Hours

Lab Hours Min:
30

Course Learning Outcomes

Name	Objective
The student will be able to document suspension system concerns	Complete work order to include customer information vehicle identifying information customer concern related service history cause and correction', Identify and interpret suspension and steering system concerns determine necessary action', Research applicable vehicle and service information such as suspension and steering system operation vehicle service history service precautions and technical service bulletins', Locate and interpret vehicle and major component identification numbers

Name	Objective
The student will be able to perform diagnostics of steering systems	Diagnose steering column noises looseness and binding concerns including tilt mechanisms determine necessary action', Diagnose power steering gear nonrack and pinion binding uneven turning effort looseness hard steering and noise concerns determine necessary action', Diagnose power steering gear rack and pinion binding uneven turning effort looseness hard steering and noise concerns determine necessary action', Determine proper power steering fluid type inspect fluid level and condition', Diagnose power steering fluid leakage determine necessary action', Test and diagnose components of electronically controlled steering systems using a scan tool determine necessary action', Inspect and test electric power assist steering', Identify hybrid vehicle power steering system electrical circuits service and safety precautions', Diagnose inspect adjust repair or replace components of electronically controlled steering systems including sensors switches and actuators initialize system as required', Describe the function of the idle speed compensation switch

Name	Objective
The student will be able to perform repairs of steering systems	Disable and enable supplemental restraint system SRS', Remove and replace steering wheel centertime supplemental restraint system SRS coil clock spring', Inspect steering shaft universaljoints flexible couplings collapsible column lock cylinder mechanism and steering wheel perform necessary action', Adjust nonrack and pinion worm bearing preload and sector lash', Remove and replace rack and pinion steering gear inspect mounting bushings and brackets', Inspect and replace rack and pinion steering gear inner tie rod ends sockets and bellows boots', Flush fill and bleed power steering system', Remove inspect replace and adjust power steering pump belt', Remove and reinstall power steering pump', Remove and reinstall press fit power steering pump pulley check pulley and belt alignment', Inspect and replace power steering hoses and fittings', Inspect and replace pitman arm relay centerlinkintermediate rod idler arm and mountings and steering linkage damper', Inspect replace and adjust tie rod ends sockets tie rod sleeves and clamps', Diagnose inspect adjust repair or replace components of electronically controlled steering systems including sensors switches and actuators initialize system as required', Lubricate suspension and steering systems

Name	Objective
The student will be able to perform diagnostics of suspension systems	Diagnose short and long arm suspension system noises body sway and uneven ride height concerns determine necessary action', Diagnose strut suspension system noises body sway and uneven ride height concerns determine necessary action', Test and diagnose components of electronically controlled suspension systems using a scan tool determine necessary action

Name The student will be able to perform repairs of suspension systems	**Objective** Diagnose short and long arm suspension system noises body sway and uneven ride height concerns determine necessary action', Diagnose strut suspension system noises body sway and uneven ride height concerns determine necessary action', Remove inspect and install upper and lower control arms bushings shafts and rebound bumpers', Remove inspect and install strut rods and bushings', Remove inspect and install upper andor lower ball joints', Remove inspect and install steering knuckle assemblies', Remove inspect and install short and long arm suspension system coil springs and spring insulators', Remove inspect install and adjust suspension system torsion bars inspect mounts', Remove inspect and install stabilizer bar bushings brackets and links', Remove inspect and install strut cartridge or assembly strut coil spring insulators silencers and upper strut bearing mount', Remove inspect and install leaf springs leaf spring insulators silencers shackles brackets bushings and mounts', Inspect remove and replace shock absorbers', Remove inspect and service or replace front and rear wheel bearings', Lubricate suspension and steering systems

Name The student will be able to determine the need for wheel alignment and adjustment	**Objective** Diagnose vehicle wander drift pull hard steering bump steer memory steer torque steer and steering return concerns determine necessary action', Perform prealignment inspection and measure vehicle ride height perform necessary action', Prepare vehicle for wheel alignment on the alignment machine perform fourwheel alignment by checking and adjusting front and rear wheel caster camber and toe as required center steering wheel', Check toeoutonturns turning radius determine necessary action', Check SAI steering axis inclination and included angle determine necessary action', Check rear wheel thrust angle determine necessary action', Check for front wheel setback determine necessary action', Check front andor rear cradle subframe alignment determine necessary action

Name The student will be able to perform diagnostics of wheel and tire systems	**Objective** Diagnose wheeltire vibration shimmy and noise determine necessary action', Measure wheel tire axle flange and hub runout determine necessary action', Diagnose tire pull problems determine necessary action', Inspect diagnose and calibrate tire pressure monitoring system

Name The student will be able to perform repairs of wheel and tire systems	**Objective** Inspect tire condition identify tire wear patterns check and adjust air pressure determine necessary action', Rotate tires according to manufacturers recommendations', Dismount inspect and remount tire on wheel balance wheel and tire assembly static and dynamic', Dismount inspect and remount tire on wheel equipped with tire pressure monitoring system sensor', Reinstall wheel torque lug nuts', Inspect tire and wheel assembly for air loss perform necessary action', Repair tire using internal patch