

WICHITA AREA TECHNICAL COLLEGE

# COLLEGE CATALOG 2014-2015

### Table of Contents

| Mission, Vision & Values                                                                                                                                                                                                                                                 | 3                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| Governance and Structure                                                                                                                                                                                                                                                 | 4                                                               |
| Accreditation                                                                                                                                                                                                                                                            | 4                                                               |
| Nondiscrimination                                                                                                                                                                                                                                                        | 4                                                               |
| Educational Programs                                                                                                                                                                                                                                                     | 5                                                               |
| Policies and Procedures                                                                                                                                                                                                                                                  | 7                                                               |
| Campus Locations                                                                                                                                                                                                                                                         | 8                                                               |
| Academic Coaches                                                                                                                                                                                                                                                         | 9                                                               |
| Programs of Study                                                                                                                                                                                                                                                        | 10                                                              |
| Administrative Office Technology Aerospace Coatings & Paint Technology Aerospace Manufacturing - Aerospace Quality Control, Aerospace Tooling, Assembly Mechanic, Electrical Assembly                                                                                    | 11<br>13<br>15                                                  |
| Air Conditioning Technology Airbrush Technology Architectural Design Technology Automotive Collision Repair Automotive Service Technology Aviation Maintenance Technology                                                                                                | 22<br>25<br>27<br>30<br>32<br>35                                |
| - Airframe and Powerplant Avionics Business Administration Carpentry Composite Technology Dental Assisting Electromechanical Systems Engineering Design Technology Interior Design - Kitchen & Bath Design, Faux Painting, Floral Des IT Essentials Machining Technology | 39<br>42<br>44<br>45<br>50<br>53<br>55<br>59<br>ign<br>63<br>64 |
| Medical Assisting Nondestructive Testing Nursing                                                                                                                                                                                                                         | 69<br>74<br>84                                                  |
| - CNA, CMA, HHA, Practical Nurse Operations Management Police Science Robotics Surgical Technology Welding                                                                                                                                                               | 90<br>93<br>95<br>99<br>101                                     |
| Course Descriptions                                                                                                                                                                                                                                                      | 107                                                             |

Wichita Area Technical College (WATC) has been delivering excellence in education since 1965. WATC continues to build on this tradition with quality instructors, talented students and state-of-the-art technical equipment. Together, these elements help create a hands-on learning environment that promotes participation and prepares students for further education and/or career experiences.

#### Mission, Vision and Values

#### Mission

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

#### Vision

WATC will be the leading provider of higher education, specializing in the delivery of career technical education, utilizing state of-the-art facilities with highly qualified faculty, and offering a competitive advantage that drives economic development in the region.

#### Values

To achieve our vision and fulfill our mission, Wichita Area Technical College has embraced the following values:

Accountability: WATC values the resources entrusted to it and will use them responsibly to support the college's mission.

Quality: WATC values an environment of professionalism and excellence for students, faculty, and staff to learn and work.

Innovation: WATC values cutting-edge technology and delivery methods to encourage lifelong learning within a rapidly changing society.

Customer Service: WATC values its customers as it strives to exceed their expectations, while responding to the needs of its various constituents.

Equity/Diversity: WATC values the diverse nature of its students, faculty and staff and seeks to treat each person with the utmost respect.

Global Professional Standards: WATC values and practices behaviors that promote responsible, successful, and ethical students, employees and citizens.

#### **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 WATC.

Sedgwick County Technical Education and Training Authority

Sedgwick County Technical Education and Training Authority (SCTETA) is the governing board for WATC. The board consists of 11 appointed, voting members who establish and publish policies, regulations and procedures pertaining to WATC.

#### 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.

Wichita Area Technical College 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
ncahlc.org

#### **Nondiscrimination**

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

Wichita Area Technical College intends to comply with all applicable federal, state and local laws and regulations, including but not limited to: the Civil Rights Act of 1964, as amended; the Americans With Disabilities Act of 1990; the Age Discrimination in Employment Act of 1967; the Drug-Free Schools and Campuses Act; the Campus Security Act (Jeanne Cleary Act), as amended; the Family Educational Rights and Privacy Act of 1974, as amended; and the Nondiscrimination on the Basis of Sex in

Education Programs or Activities Receiving Federal Financial Assistance rules.

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

#### **Educational Programs**

Students have many educational opportunities at WATC 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, certificates of completion. Students may also opt to select courses that focus on particular technical skills instead of registering in a complete program.

#### Associate of Applied Science Degrees

AAS degree programs are designed to provide students with the knowledge and skills needed to enter the workforce, advance within their chosen careers or further their education. To be awarded the AAS degree, students must successfully complete a minimum of 60 credit hours — a combination of technical and general education hours.

Although AAS degrees are designed to prepare students for employment, technical credits may transfer to other colleges or universities. The Vice President, Academic Affairs may approve alternative general education courses and acceptance of transfer credits or work experience.

#### WATC offers the following AAS programs:

- Administrative Office Technology
- Air Conditioning Technology
- Aerospace Coatings & Paint Technology
- Applied Science of Aviation Manufacturing
- Architectural Design Technology
- Auto Collision Repair
- Automotive Service Technology
- Aviation Maintenance Technology
- Avionics Technology
- Business Administration
- Composite Technology
- Dental Assistant
- Electromechanical Systems

- Engineering Design Technology
- Healthcare Admin. & Management
- Interior Design
- Machining Technology
- Manufacturing Engineering Technology
- Medical Assistant
- Medical Coding
- Nondestructive Testing
- Police Science
- Predictive NDT Technologies
- Robotics
- Surgical Technology
- Welding

#### General Education

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

WATC 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. WATC'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.

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

#### **Technical Certificates**

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

#### Certificates of Completion

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

### Policies and Procedures

Chapter 1 – Organization

Chapter 2 – Personnel Policies

Chapter 3 – Students

Chapter 4 – Fiscal

Chapter 5 – Academic

Chapter 6 – Buildings and Grounds

Chapter 7 – Safety and Security

Chapter 8 – Marketing

Chapter 9 – Information Technology

Chapter 10 – Foundation and Grants

Chapter 11 – Workforce

### **Locations & Phone Numbers**

| General Information                                    | 16.677.9400 |
|--------------------------------------------------------|-------------|
| Fax31                                                  | 16.677.9555 |
| Websitewv                                              | vw.watc.edu |
| Emergency Closing Hotline (also visit www.watc.edu) 31 | 16.677.9596 |

#### NATIONAL CENTER FOR AVIATION TRAINING/JABARA

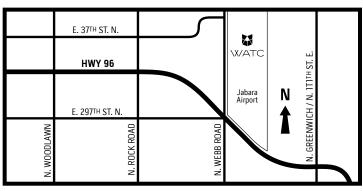
4004 N. Webb Road | Wichita, KS 67226 | 316.677.9400

#### **SOUTHSIDE CENTER**

#### **GROVE CAMPUS**

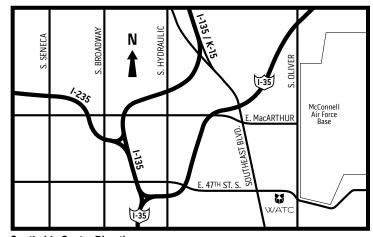
301 S. Grove | Wichita, KS 67211-2099 | 316.677.9400

| Adult Literacy/GED  |              |
|---------------------|--------------|
| •                   |              |
| General Information | 316.677.9400 |
| 40 K B              | 040 077 4044 |
| AO-K Program        |              |



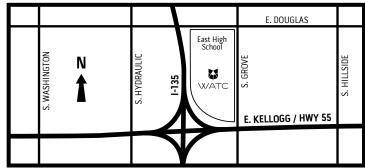
#### **National Center for Aviation Training/Jabara Directions**

- Go north on I-135 to 96-E.
- Turn north onto Webb Road.
- Go east on 96-E and exit on Webb Road.
- <sup>n</sup> Turn right after 39th Street North.



#### Southside Center Directions

- Go south on I-135 / K-15.
- Take Exit 3A and merge onto K-15 S / Southeast Boulevard.
- Go southeast on K-15 / Southeast
- Boulevard to 47th St.
- Go east on 47th Street South (south side of street).



#### **Grove Campus Directions from East**

- Go west on Kellogg (US Hwy 54) to Grove exit.
- Go north on Grove approximately one block (west side of street).

#### **Grove Campus Directions from West**

- Go east on Kellogg to Washington exit.
- Go north on Washington to Douglas.
- Go east on Douglas to Grove.
- Go south on Grove approximately two blocks (west side of street).



JEFF HAGANS (SSC) 316.677.1035 | jhagans@watc.edu

Dental Assistant Medical Assistant Surgical Technology Medical Coding



KRIS DEAN (NCAT) 316.677.1963| kdean@watc.edu

Air Conditioning Technology Automotive Collision Repair Automotive Service Technology Electromechanical Systems Private Security (PSOT)



DAJINA KIEL (SSC) 316.677.1093 | dkiel@watc.edu

Licensed Practical Nurse Registered Nurse (Pratt Partnership)



BRIAN LEE (NCAT)
316.677.1810 | blee3@watc.edu

Architectural Design
Machining Technology
Manufacturing Engineering
Mechanical Design
Police Science
Robotics
Welding



ASHLEY SAVAGE (SSC) 316.677.1009 | asavage@watc.edu

Administrative Office Technology Business Certified Nurse Assistant Certified Medical Assistant Home Health Aide Interior Design



REBEKAH PRICHARD (NCAT) 316.677.1027 | rprichard1@watc.edu

Aerospace Coatings & Paint Aviation Manufacturing Aviation Maintenance Avionics Composites Non-Destructive Testing



CRYSTAL THOMSEN (SSC) 316.677.1747 | cthomsen@watc.edu

General Education Transfer Students Visit WATC.edu to apply or one of our enrollment centers:

316.677.9400

NATIONAL CENTER FOR AVIATION TRAINING (NCAT) 4004 N. Webb Road | WICHITA, KS 67226

SOUTHSIDE CENTER (SSC) 4501 East 47th Street South | Wichita, KS 67210



### WICHITA AREA TECHNICAL COLLEGE

### **PROGRAMS OF STUDY**



WATC > Administrative Office Technology (Online), AAS

## Administrative Office Technology (Online), AAS

### Curriculum

| CRN             | Course Name                 | Credits |
|-----------------|-----------------------------|---------|
| Required Tech   | nical Courses               |         |
| BUS 106 Office  | Procedures                  | 3       |
| BUS 121 Busine  | ss Communications           | 3       |
| CED 102 Keyboa  | arding                      | 1       |
| CED 116 Advance | ed Word                     | 2       |
| CED 117 Advanc  | ced Excel                   | 2       |
| CED 118 Advance | ed PowerPoint               | 2       |
| PVD 101 Global  | Professional Standards      | 2       |
| OPM115 Introdu  | ction to Project Management |         |
| MGT 111 Busine  | ss Ethics                   | 3       |
| Required Gene   | ral Education Courses       |         |
| ACC 105 Fundar  | mentals of Accounting       | 3       |
| BIO 110 Princip | les of Biology              | 5       |
| OR              |                             |         |
| CHM 110 Genera  | al Chemistry                |         |
| OR              |                             |         |
| PHS 110 Physic  | al Science                  |         |
| BUS 104 Introdu | ction to Business           | 3       |
| BUS 130 Person  | al Finance                  | 3       |
| BUS 200 Princip | les of Management           | 3       |
| CED 115 Compu   | iter Applications           | 3       |
| ECO 105 Princip | les of Macroeconomics       | 3       |
| ECO 110 Princip | les of Microeconomics       | 3       |
| ENG 101 Compo   | sition I                    | 3       |
| ENG 120 Compo   | sition II                   | 3       |
| MTH 112 College | e Algebra                   | 3       |
| PHL 110 Ethics  |                             | 3       |
| OR              |                             |         |
|                 | States History to 1877      |         |
| OR              |                             |         |
|                 | States History since 1865   |         |
| PSY 101 Genera  | al Psychology               | 3       |
| OR              |                             |         |
| SOC 101 Princip |                             |         |
| SPH 101 Public  | Speaking                    | 3       |
| OR              |                             |         |
| •               | rsonal Communication        |         |
| Total           |                             | 65      |

Start Dates

June 2014 January 2015 August 2014 March 2015 October 2014 June 2015

#### Location

Southside Center

4501 E. 47th Street South | Wichita, KS 67210 316.677.9400 Get maps at watc.edu/campuses

#### Costs\*

| Tuition           | \$3,978.00 |
|-------------------|------------|
| Fees              | \$1,829.00 |
| Lab & Online Fees | \$1,531.00 |
| TOTAL             | \$7,338.00 |

\*Cost does not include books or tools. Financial Assistance may be available to those who qualify.

#### Success Rate

This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical
College postsecondary program completers. WATC defines success as those graduates who have found placement in a job, the military or are enrolled in advanced study.

Eligible graduates contacted in follow-up study
NA
Placement rate
NA

#### Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$34,770 \$16.72

<sup>\*</sup>Some courses may have a prerequisite in addition to the classes

listed above. Please  $\underline{\text{contact an Academic Coach}}$  for details. Visit  $\underline{\text{watc.edu/checklist}}$  for program admission requirements.



WATC > Aerospace Coatings and Paint, AAS

## Aerospace Coatings and Paint, AAS

### Curriculum

| CRN            | Course Name                            | Credits |
|----------------|----------------------------------------|---------|
| Required Ted   | chnical Courses                        |         |
| ACP 100 Introd | duction to Coatings & Paint Technology | 3       |
| ACP 101 Surfa  | ace Preparation & Coatings             | 4       |
| ACP 102 Perfo  | ormance & Durability of Coatings       | 3       |
| ACP 103 Color  | r Technology                           | 3       |
| ACP 104 Spec   | cialized Coating Processes             | 3       |
| ACP 105 Spec   | cialized Detailing                     | 3       |
| ACP 106 Aeros  | space Coatings & Materials             | 3       |
| ACP 107 Aeros  | space Program Management               | 3       |
| ACP 111 Tech   | nical Co-Operative Project             | 4       |
| AVC 102Prec    | ision Instruments                      | 1       |
| AVC 103 Geor   | metric Dimensioning & Tolerancing      | 1       |
| AVC 104 Qual   | ity Control Concepts                   | 1       |
| AVC 105 Aircra | aft Familiarization                    | 1       |
| AVC 107 Fund   | lamentals for Aerospace Manufacturing  | 1       |
| AVC 108 Aircra | aft Systems & Components               | 4       |
| AVC 110 Safet  | ty/OSHA 10                             | 1       |
| AVC 112Blue    | print Reading                          | 2       |
|                | al Professional Standards              | 2       |
| Required Ger   | neral Education Courses                |         |
| CED 115 Com    | puter Applications                     | 3       |
| CHM 110 Gene   | eral Chemistry                         | 5       |
| ENG 101 Com    | position I                             | 3       |
| MTH 112 Colle  | ege Algebra                            | 3       |
| PSY 101 Gene   | eral Psychology                        | 3       |
| OR             |                                        |         |
| SOC 101 Princ  | ciples of Sociology                    |         |
| SPH 101 Publi  | ic Speaking                            | 3       |
| OR             |                                        |         |
| -              | personal Communication                 |         |
| Total          |                                        | 63      |

\*Some courses may have a prerequisite in addition to the classes listed above. Please <u>contact an Academic Coach</u> for details. Visit <u>watc.edu/checklist</u> for program admission requirements.

#### Start Dates

June 2014 January 2015 August 2014 March 2015 October 2014 June 2015

#### Location

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

|                        | Costs*                     |
|------------------------|----------------------------|
| Tuition                | \$6,784.00                 |
| Fees                   | \$1,859.00                 |
| Lab Fees               | \$2,472.00                 |
| TOTAL                  | \$11,115.00                |
| *Cost does not include | online fees books or tools |

Cost does not include offline fees, books of tools.

Financial Assistance may be available to those who qualify.

#### Success Rate

This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical
College postsecondary program completers. WATC defines success as those graduates who have found placement in a job, the military or are enrolled in advanced study.

Eligible graduates contacted in follow-up study
1
Placement rate
100%

#### Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$44,800 \$21.54



WATC > Aerospace Coatings & Paint, TC

## Aerospace Coatings & Paint, TC

| CRN          | Course Name                              | Credits |
|--------------|------------------------------------------|---------|
| Required T   | echnical Courses                         |         |
| ACP 100 Intr | roduction to Coatings & Paint Technology | / 3     |
| ACP 101 Su   | rface Preparation & Coatings             | 4       |
| ACP 102Pe    | rformance & Durability of Coatings       | 3       |
| ACP 103 Co   | olor Technology                          | 3       |
| ACP 104 Sp   | ecialized Coating Processes              | 3       |
| ACP 105Sp    | ecialized Detailing                      | 3       |
| ACP 106 Ae   | rospace Coatings & Materials             | 3       |
| ACP 107 Ae   | rospace Program Management               | 3       |
| ACP 111Te    | chnical Co-Operative Project             | 4       |
| AVC 102 Pre  | ecision Instruments                      | 1       |
| AVC 103 Ge   | eometric Dimensioning & Tolerancing      | 1       |
| AVC 104 Qu   | uality Control Concepts                  | 1       |
| AVC 105 Air  | craft Familiarization                    | 1       |
| AVC 107Fu    | ndamentals for Aerospace Manufacturing   | 1       |
| AVC 108 Air  | craft Systems & Components               | 4       |
| AVC 110 Sa   | fety/OSHA 10                             | 1       |
| AVC 112Blu   | ueprint Reading                          | 2       |
| MTH 020 Ma   | th Fundamentals                          | 3       |
| PVD 105 Gk   | obal Professional Standards              | 2       |
| Required G   | General Education Courses                |         |
| CED 101 Co   | mputer Essentials                        | 2       |
| Total        |                                          | 48      |

<sup>\*</sup>Some courses may have a prerequisite in addition to the classes listed above. Please <u>contact an Academic Coach</u> for details. Visit <u>watc.edu/checklist</u> for program admission requirements.

#### Start Dates

June 2014 January 2015 August 2014 March 2015 October 2014 June 2015

#### Location

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

|          | Costs*     |
|----------|------------|
| Tuition  | \$5,839.00 |
| Fees     | \$1,416.00 |
| Lab Fees | \$2,416.00 |
| TOTAL    | \$9,671.00 |
|          |            |

\*Cost does not include online fees, books or tools.

Financial Assistance may be available to those who qualify.

#### Success Rate

This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical
College postsecondary program completers. WATC defines success as those graduates who have found placement in a job, the military or are enrolled in advanced study.

Eligible graduates contacted in follow-up study

1
Placement rate
100%

#### Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$44,800 \$21.54



WATC > Aerospace Manufacturing Technology, AAS

## Aerospace Manufacturing Technology, AAS

### Curriculum

| Curriculum            |                                       |        |
|-----------------------|---------------------------------------|--------|
| CRN                   | Course Name                           | Credit |
| Required Technical    | Courses                               |        |
| AVC 102 Precision In: | struments                             | 1      |
| AVC 104 Quality Conf  |                                       | 1      |
| AVC 105 Aircraft Fam  |                                       | 1      |
|                       | als for Aerospace Manufacturing       | 1      |
| AVC 110 Safety/OSH    |                                       | 1      |
| AVC 112 Blueprint Re  |                                       | 2      |
| AVC 120 Introduction  |                                       | 1      |
| AVC 125 Bonding and   | d Grounding                           | 1      |
| AVC 135 Hand Tools    |                                       | 1      |
| LEN 100 Lean for Op   |                                       | 3      |
| NDT 114 Visual Inspe  |                                       | 3      |
| ·                     | of 21 credits required)               |        |
| •                     | Manufacturing Tooling Orientation     | 1      |
| AER 111 Tap and Die   |                                       | 1      |
| AER 115 Aerostructui  |                                       | 6      |
|                       | ower Tools for Aerospace Tooling      | 1      |
| AER 126 Tooling Cap   |                                       | 4      |
| AER 135 Quality Assu  |                                       | 1      |
| AER 140 Assembly M    |                                       | 1      |
| AER 150 Assembly C    |                                       | 3      |
| AER 155 Aerospace I   |                                       | 2      |
|                       | ssembly Mechanic Orientation          | 1      |
| AER 166 Electrical Ha |                                       | 1      |
|                       | g & Riveting/Ground Stud Installation |        |
| AER 168 Wire Installa | •                                     | 1      |
| AER 169 Crimping &    |                                       | 2      |
| AER 170 Fiber Optics  | •                                     | 1      |
| AER 175 Wire Bundle   | Basics                                | 1      |
| AER 180 Soldering     | lastallation                          | 1<br>2 |
| AER 185 Wire Bundle   |                                       |        |
|                       | Dimensioning & Tolerancing            | 1<br>4 |
| AVC 108 Aircraft Syst | tems & Components                     | 4      |
| AVC 140 Electrical Bo |                                       | 1      |
| AVC 145 Power Island  | <del></del>                           | 1      |
| AVC 150 Human Fact    |                                       | 1      |
| AVC 165Technical W    | /riting                               | 1      |
| AVC 170 Conflict Res  | solution                              | 1      |
|                       |                                       |        |

#### Start Dates

June 2014 January 2015 August 2014 March 2015 October 2014 June 2015

#### Location

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

|                        | Costs*                      |
|------------------------|-----------------------------|
| Tuition                | \$7,227.00                  |
| Fees                   | \$2,095.00                  |
| Lab Fees               | \$1,739.00                  |
| TOTAL                  | \$11,061.00                 |
| *Cost does not include | e online fees, books or too |

Cost does not include offiline rees, books of tools.

Financial Assistance may be available to those who qualify.

#### Success Rate

This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical College postsecondary program completers. WATC defines success as those graduates who have found placement in a job, the military or are enrolled in advanced study.

Eligible graduates contacted in follow-up study

4

Placement rate

100%

#### Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$37,390 \$17.97

| CFT 101 Introduction to Composites       | 2  |
|------------------------------------------|----|
| CFT 135 Overview of Composite Inspection | 1  |
| MTH 020 Math Fundamentals                | 3  |
| PVD 105 Global Professional Standards    | 2  |
| CED 101 Computer Essentials              | 2  |
| Required General Education Courses       |    |
| BUS 121 Business Communications          | 3  |
| CED 115 Computer Applications            | 3  |
| ENG 101 Composition I                    | 3  |
| MTH 112 College Algebra                  | 3  |
| PHS 120 General Physics I                | 5  |
| OR                                       |    |
| PSH 110 Physical Science                 |    |
| PSY 101 General Psychology               | 3  |
| OR                                       |    |
| SOC 101 Principles of Sociology          |    |
| SPH 101 Public Speaking                  | 3  |
| OR                                       |    |
| SPH 111 Interpersonal Communication      |    |
| Total                                    | 60 |
|                                          |    |

<sup>\*</sup>Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Coach for details. Visit watc.edu/checklist for program admission requirements.



WATC > Aerospace Manufacturing, TC

## Aerospace Manufacturing, TC Curriculum

| CRN            | Course Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Credits |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Required Te    | chnical Courses                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| ORI 005 Manu   | ufacturing Orientation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0       |
| AER 115 Aero   | structures Assembly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 6       |
| AER 140 Asse   | embly Mechanic Orientation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1       |
| AVC 102 Prec   | ision Instruments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1       |
| AVC 103 Geor   | metric Dimensioning & Tolerancing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1       |
| AVC 104 Qual   | ity Control Concepts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1       |
| AVC 105 Aircr  | aft Familiarization                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1       |
| AVC 107 Fund   | lamentals for Aerospace Manufacturing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1       |
| AVC 108 Aircr  | aft Systems & Components                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 4       |
| AVC 110 Safe   | ty/OSHA 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1       |
| AVC 112 Blue   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2       |
| AVC 120 Introd | duction to Sealing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1       |
| AVC 125 Bond   | ding and Grounding                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1       |
| AVC 135 Hand   | d Tools                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1       |
| AVC 140 Elect  | trical Bonding & Grounding                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1       |
| AVC 145 Pow    | er Island                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1       |
| AVC 150 Hum    | an Factors                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1       |
| CFT 101 Introd | duction to Composites                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2       |
| MTH 020 Math   | Fundamentals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3       |
| PVD 105 Glob   | al Professional Standards                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2       |
| Total          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 32      |
| *^             | and the second s | . 411   |

<sup>\*</sup>Some courses may have a prerequisite in addition to the classes listed above. Please <u>contact an Academic Coach</u> for details. Visit <u>watc.edu/checklist</u> for program admission requirements.

#### Start Dates

June 2014 January 2015 August 2014 March 2015 October 2014 June 2015

Tuition Fees Lab Fees TOTAL

#### Location

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

| Costs      |
|------------|
| \$3,529.00 |
| \$944.00   |
| \$2,192.00 |
| \$6,665.00 |

\*Cost does not include online fees, books or tools.

Financial Assistance may be available to those who qualify.

This chart contains the results of the one-year follow-up

#### Success Rate

study conducted of 2013 Wichita Area Technical
College postsecondary program completers. WATC defines
success as those graduates who have found placement in a job, the
military or are enrolled in advanced study.
Eligible graduates contacted in follow-up study
4
Placement rate
100%

#### Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$37,390 \$17.97



WATC > Aerospace Quality Control, TC

## Aerospace Quality Control, TC Curriculum

| CRN Course Name                                | Credits |
|------------------------------------------------|---------|
| Required Technical Courses                     |         |
| ORI 005 Manufacturing Orientation              | 0       |
| AER 135 Quality Assurance Orientation          | 1       |
| AER 150 Assembly Overview I                    | 3       |
| AER 155 Aerospace Plumbing                     | 2       |
| AER 168 Wire Installation Drawings             | 1       |
| AER 169 Crimping & Cables                      | 2       |
| AER 175 Wire Bundle Basics                     | 1       |
| AVC 102 Precision Instruments                  | 1       |
| AVC 103 Geometric Dimensioning & Tolerancing   | 1       |
| AVC 104 Quality Control Concepts               | 1       |
| AVC 105 Aircraft Familiarization               | 1       |
| AVC 107 Fundamentals for Aerospace Manufacturi | ing 1   |
| AVC 108 Aircraft Systems & Components          | 4       |
| AVC 110 Safety/OSHA 10                         | 1       |
| AVC 112 Blueprint Reading                      | 2       |
| AVC 120 Introduction to Sealing                | 1       |
| AVC 125 Bonding and Grounding                  | 1       |
| AVC 135 Hand Tools                             | 1       |
| AVC 165 Technical Writing                      | 1       |
| AVC 170 Conflict Resolution                    | 1       |
| CFT 101 Introduction to Composites             | 2       |
| CFT 135 Overview of Composite Inspection       | 1       |
| MTH 020 Math Fundamentals                      | 3       |
| PVD 105 Global Professional Standards          | 2       |
| General Education Courses                      |         |
| CED 101 Computer Essentials                    | 2       |
| SPH 101 Public Speaking                        | 3       |
| OR                                             |         |
| SPH 111 Interpersonal Communication            |         |
| Total                                          | 40      |

<sup>\*</sup>Some courses may have a prerequisite in addition to the classes listed above. Please <u>contact an Academic Coach</u> for details. Visit <u>watc.edu/checklist</u> for program admission requirements.

#### Start Dates

June 2014 January 2015 August 2014 March 2015 October 2014 June 2015

#### Location

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

|          | Costs*     |
|----------|------------|
| Tuition  | \$4,103.00 |
| Fees     | \$1,092.00 |
| Lab Fees | \$1,468.00 |
| TOTAL    | \$6,663.00 |

\*Cost does not include online fees, books or tools.

Financial Assistance may be available to those who qualify.

#### Success Rate

This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical
College postsecondary program completers. WATC defines success as those graduates who have found placement in a job, the military or are enrolled in advanced study.

Eligible graduates contacted in follow-up study
NA
Placement rate
NA

#### Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly NA NA



WATC > Aerospace Tooling, TC

## Aerospace Tooling, TC

| CRN        | Course Name                                | Credits |
|------------|--------------------------------------------|---------|
| Required   | Technical Courses                          |         |
| ORI 005 M  | anufacturing Orientation                   | 0       |
| AER 106 A  | erospace Manufacturing Tooling Orientation | 1       |
| AER 111 Ta | ap & Die                                   | 1       |
| AER 116 H  | and and Power Tools for Aerospace Tooling  | 1       |
|            | poling Capstone                            | 4       |
|            | ssembly Overview I                         | 3       |
|            | recision Instruments                       | 1       |
|            | eometric Dimensioning & Tolerancing        | 1       |
|            | uality Control Concepts                    | 1       |
|            | rcraft Familiarization                     | 1       |
|            | undamentals for Aerospace Manufacturing    | 1       |
|            | afety/OSHA 10                              | 1       |
|            | lueprint Reading                           | 2       |
|            | troduction to Sealing                      | 1       |
|            | onding and Grounding                       | 1       |
| AVC 135 H  |                                            | 1       |
| AVC 145 Pc |                                            | 1       |
|            | ath Fundamentals                           | 3       |
|            | lobal Professional Standards               | 2<br>27 |
| Total      |                                            | 21      |

\*Some courses may have a prerequisite in addition to the classes listed above. Please <u>contact an Academic Coach</u> for details. Visit <u>watc.edu/checklist</u> for program admission requirements.



#### Start Dates

June 2014 January 2015 August 2014 March 2015 October 2014 June 2015

Tuition Fees Lab Fees TOTAL

#### Location

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

| Costs* |            |
|--------|------------|
|        | \$3,003.00 |
|        | \$797.00   |
|        | \$751.00   |
|        | \$4,551.00 |

\*Cost does not include online fees, books or tools.

Financial Assistance may be available to those who qualify.

#### Success Rate

This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical College postsecondary program completers. WATC defines success as those graduates who have found placement in a job, the military or are enrolled in advanced study.

Eligible graduates contacted in follow-up study

NA

Placement rate

#### Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly NA NA



WATC > Assembly Mechanic, TC

### Assembly Mechanic, TC Curriculum

| CRN                  | Course Name                        | Credits |
|----------------------|------------------------------------|---------|
| Required Techni      | cal Courses                        |         |
| ORI 005 Manufact     |                                    | 0       |
| AER 115 Aerostruc    | ctures Assembly                    | 6       |
| AER 140 Assembly     | y Mechanic Orientation             | 1       |
| AVC 102 Precision    | Instruments                        | 1       |
| AVC 104 Quality C    | ontrol Concepts                    | 1       |
| AVC 105 Aircraft F   | amiliarization                     | 1       |
| AVC 107 Fundame      | entals for Aerospace Manufacturing | 1       |
| AVC 110 Safety/OS    | SHA 10                             | 1       |
| AVC 112 Blueprint    | Reading                            | 2       |
| AVC 120 Introduction | on to Sealing                      | 1       |
| AVC 125 Bonding a    | and Grounding                      | 1       |
| AVC 135 Hand Too     | ols                                | 1       |
| AVC 140 Electrical   | Bonding & Grounding                | 1       |
| AVC 145 Power Isl    | and                                | 1       |
| CFT 101 Introduction | on to Composites                   | 2       |
| MTH 020 Math Fun     | damentals                          | 3       |
| PVD 105 Global Pr    | ofessional Standards               | 2       |
| Total                |                                    | 24      |

<sup>\*</sup>Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Coach for details. Visit watc.edu/checklist for program admission requirements.

#### Start Dates

June 2014 January 2015 August 2014 March 2015 October 2014 June 2015

#### Location

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

|          | Costs*     |
|----------|------------|
| Tuition  | \$2,589.00 |
| Fees     | \$708.00   |
| Lab Fees | \$1,749.00 |
| TOTAL    | \$5,046.00 |

\*Cost does not include online fees, books or tools.

Financial Assistance may be available to those who qualify.

#### Success Rate

This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical College postsecondary program completers. WATC defines success as those graduates who have found placement in a job, the military or are enrolled in advanced study. Eligible graduates contacted in follow-up study 61 Placement rate 98%

#### Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$37,390 \$17.97



WATC > Electrical Assembly, TC

## Electrical Assembly, TC

| CRN           | Course Name                                   | Credits |
|---------------|-----------------------------------------------|---------|
| Required Te   | chnical Courses                               |         |
| ORI 005 Manu  | ufacturing Orientation                        | 0       |
| AER 165 Elect | rical Assembly Mechanic Orientation           | 1       |
| AER 166 Elect | rical Hand Tools                              | 1       |
| AER 167 Basic | Drilling & Riveting/Ground Stud Installation  | 2       |
| AER 168 Wire  | Installation Drawings                         | 1       |
| AER 169 Crim  | ping & Cables                                 | 2       |
| AER 170 Fiber | Optics for Aerospace                          | 1       |
| AER 175 Wire  | Bundle Basics                                 | 1       |
| AER 180 Solde | ering                                         | 1       |
| AER 185 Wire  | Bundle Installation                           | 2       |
|               | ision Instruments                             | 1       |
| AVC 104 Quali | ity Control Concepts                          | 1       |
|               | aft Familiarization                           | 1       |
|               | amentals for Aerospace Manufacturing          | 1       |
|               | aft Systems & Components                      | 4       |
| AVC 110 Safet |                                               | 1       |
| AVC 112 Bluer | -                                             | 2       |
|               | duction to Sealing                            | 1       |
|               | ling and Grounding                            | 1       |
| AVC 135 Hand  |                                               | 1       |
|               | rical Bonding & Grounding                     | 1       |
| AVC 145 Power |                                               | 1       |
|               | Fundamentals                                  | 3       |
|               | al Professional Standards                     | 2       |
| Total         |                                               | 32      |
| ******        | a many baya a measaguiaita in addition to the | -1      |

\*Some courses may have a prerequisite in addition to the classes listed above. Please <u>contact an Academic Coach</u> for details. Visit <u>watc.edu/checklist</u> for program admission requirements.



#### Start Dates

June 2014 January 2015 August 2014 March 2015 October 2014 June 2015

#### Location

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

|          | Costs^     |
|----------|------------|
| Tuition  | \$3,606.00 |
| Fees     | \$944.00   |
| Lab Fees | \$944.00   |
| TOTAL    | \$5,494.00 |
|          |            |

\*Cost does not include online fees, books or tools.

Financial Assistance may be available to those who qualify.

#### Success Rate

This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical College postsecondary program completers. WATC defines success as those graduates who have found placement in a job, the military or are enrolled in advanced study.

Eligible graduates contacted in follow-up study

NA

Placement rate

NA

#### Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly NA NA



WATC > Air Conditioning Technology, AAS

### Air Conditioning Technology, AAS January 2015 March 2015 Curriculum

Start Dates August 2014 October 2014

June 2015 June 2015

| CRN              | Course Name                                   | Credits |                    | Location                                                                          |              |
|------------------|-----------------------------------------------|---------|--------------------|-----------------------------------------------------------------------------------|--------------|
| Required Techi   | nical Courses                                 |         | Grove Campus       |                                                                                   |              |
| ACR 101 Princip  | les & Practices of Refrigeration              | 3       | 301 S. Grove   Wid | chita, KS 67211                                                                   |              |
| ·                | nditioning Systems                            | 3       | 316.677.9400 Get   | maps at watc.edu/campuses                                                         |              |
|                  | umps & Related Systems                        | 4       |                    |                                                                                   |              |
| ACR 112HVAC      | •                                             | 4       |                    | Costs*                                                                            |              |
| ACR 113 Electric | cal Fundamentals                              | 3       | Tuition            | \$6,018.00                                                                        |              |
| ACR 114 Heating  | g Systems Fundamentals                        | 3       | Fees               | \$1,859.00                                                                        |              |
|                  | city & Electronics for the HVACR Service cian | 5       | Lab Fees           | \$3,549.00                                                                        |              |
| Techni           | cian                                          | 5       | TOTAL              | \$11,426.00                                                                       |              |
| ACR 120 Buildin  | g Control Systems I                           | 3       |                    | clude online fees, books or tools.                                                |              |
| ACR 126 EPA 60   | 08                                            | 1       | Financial Assistan | nce may be available to those who qualit                                          | y.           |
| ACR 130 HVAC     | Design                                        | 4       |                    |                                                                                   |              |
| ACR 135 Interns  | hip in HVACR                                  | 5       |                    | Success Rate                                                                      |              |
| OR               |                                               |         |                    | s the results of the one-year follow-up                                           |              |
| DIS 151 Directe  | ed Individual Studies                         | 3       |                    | of 2013 Wichita Area Technical                                                    |              |
| ACR 140 Sheet    | Vletal                                        | 3       |                    | ndary program completers. WATC defir                                              |              |
| CWG110Weldin     | g Applications                                | 4       |                    | graduates who have found placement i                                              | n a job, the |
| PDV 105 Global   | Professional Standards                        | 2       | •                  | olled in advanced study.                                                          | 13           |
| SAF 101 Safety   | Orientation/OSHA 10                           | 1       | Placement rate     | contacted in follow-up study                                                      | 100%         |
| Required Gene    | ral Education Courses                         |         | riacement rate     |                                                                                   | 100%         |
| CED 115 Compu    | iter Applications                             | 3       |                    | Magas                                                                             |              |
| PSY 101 Genera   | al Psychology                                 | 3       | DI C Data Courses  | Wages                                                                             | n Magas of   |
| OR               |                                               |         |                    | : Bureau of Labor Statistics (2012); Mea<br>on in Wichita, KS. WATC does not guar |              |
| SOC 101 Princip  | les of Sociology                              |         | below wages.       | or in wichita, No. WATO does not guar                                             | antee the    |
| ENG 101 Compo    | sition I                                      | 3       | Annually           | Hourly                                                                            |              |
| MTH 112 College  | e Algebra                                     | 3       | \$48.180           | \$23.17                                                                           |              |

\$23.17

63 \*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Coach for details. Visit watc.edu/checklist for program admission requirements.

SPH 101 Public Speaking OR

SPH 111 Interpersonal Communication



Start Dates
August 2014 October 2014

January 2015 March 2015 June 2015 June 2015

WATC > Air Conditioning Technology, TC

## Air Conditioning Technology, TC Curriculum

Location CRN Course Name Credits Required Technical Courses Grove Campus 301 S. Grove | Wichita, KS 67211 ACR 101 Principles & Practices of Refrigeration 3 316.677.9400 Get maps at watc.edu/campuses ACR 107 Air Conditioning Systems 3 ACR 111 Heat Pumps & Related Systems 4 Costs\* ACR 112 HVAC Fundamentals 4 \$4,273.00 **Tuition** 3 ACR 113 Electrical Fundamentals Fees \$1,298,00 ACR 114 Heating Systems Fundamentals ACR 115 Electricity & Electronics for the HVACR Service Technician Lab Fees \$2,888.00 5 TOTAL \$8,459.00 ACR 120 Building Control Systems I 3 \*Cost does not include online fees, books or tools. ACR 126 EPA 608 1 Financial Assistance may be available to those who qualify. ACR 130 HVAC Design 4 PDV 105 Global Professional Standards 2 Success Rate SAF 101 Safety Orientation/OSHA 10 This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical Required General Education Courses College postsecondary program completers. WATC defines 2 CED 101 Computer Essentials success as those graduates who have found placement in a job, the 3 MTH 101 Intermediate Algebra military or are enrolled in advanced study. SPH 101 Public Speaking Eligible graduates contacted in follow-up study 13 OR Placement rate 100% SPH 111 Interpersonal Communication Total

\*Some courses may have a prerequisite in addition to the classes listed above. Please <u>contact an Academic Coach</u> for details. Visit watc.edu/checklist for program admission requirements.

#### Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$48,180 \$23.17



WATC > Air Conditioning Technology, COC

### Air Conditioning Technology, COC

Curriculum Grove Campus

CRN Course Name Credits 301 S. Grove | Wichita, KS 67211 Required Technical Courses 316.677.9400 Get maps at watc.edu/campuses ACR 101 Principles & Practices of Refrigeration 3

ACR 112 HVAC Fundamentals Costs\* 4 ACR 115 Electricity & Electronics for the HVACR Service Technician **Tuition** \$1,396.00 Fees \$384.00 SAF 101 Safety Orientation/OSHA 10 1 Lab Fees \$930.00

Total **TOTAL** \$2,710.00 \*Some courses may have a prerequisite in addition to the classes \*Cost does not include online fees, books or tools.

listed above. Please contact an Academic Coach for details. Visit watc.edu/checklist for program admission requirements.

Start Dates August 2014 October 2014

January 2015 March 2015

June 2015

Location

June 2015

Financial Assistance may be available to those who qualify.

#### Success Rate

This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical College postsecondary program completers. WATC defines success as those graduates who have found placement in a job, the military or are enrolled in advanced study. Eligible graduates contacted in follow-up study 13 Placement rate 100%

#### Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$48,180 \$23.17



WATC > Airbrush Technology, TC

## Airbrush Technology, TC

| CRN              | Course Name                          | Credits |
|------------------|--------------------------------------|---------|
| Required Tech    | nical Courses                        |         |
| ACP 115 Introdu  | ction to Airbrush                    | 3       |
| ACP 120 Interme  | ediate Airbrush I                    | 3       |
| ACP 125 Interme  | ediate Airbrush II                   | 3       |
| ACP 160 Advance  | ced Airbrush                         | 3       |
| OR               |                                      |         |
| additio          | nal ACP elective (see below)         |         |
| AVC 102 Precisi  | ion Instruments                      | 1       |
| AVC 103 Geome    | etric Dimensioning & Tolerancing     | 1       |
| AVC 104 Quality  | Control Concepts                     | 1       |
| AVC 105 Aircraft | t Familiarization                    | 1       |
|                  | mentals for Aerospace Manufacturing  |         |
|                  | t Systems & Components               | 4       |
| AVC 110 Safety/  |                                      | 1       |
| AVC 112Bluepri   | •                                    | 2       |
| MTH 020 Math F   |                                      | 3       |
|                  | Professional Standards               | 2       |
| •                | eral Education Courses               |         |
| CED 101 Compu    |                                      | 2       |
|                  | mum of 16 credit hours required)     |         |
|                  | ction to Coatings & Paint Technology |         |
|                  | e Preparation & Coatings             | 4       |
|                  | mance & Durability of Coatings       | 3       |
| ACP 103 Color 7  | •                                    | 3       |
| •                | lized Coating Processes              | 3       |
| ACP 105 Specia   | •                                    | 3       |
|                  | pace Coatings & Materials            | 3       |
|                  | pace Program Management              | 3       |
|                  | cal Co-Operative Project             | 4       |
| Total            |                                      | 47      |

<sup>\*</sup>Some courses may have a prerequisite in addition to the classes listed above. Please <u>contact an Academic Coach</u> for details. Visit <u>watc.edu/checklist</u> for program admission requirements.

#### Start Dates

June 2014 January 2015 August 2014 March 2015 October 2014 June 2015

#### Location

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

| Costs*     |  |
|------------|--|
| \$3,276.00 |  |
| \$826.00   |  |
| \$677.00   |  |
| \$4,779.00 |  |
|            |  |

\*Cost does not include online fees, books or tools.

Financial Assistance may be available to those who qualify.

#### Success Rate

This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical
College postsecondary program completers. WATC defines success as those graduates who have found placement in a job, the military or are enrolled in advanced study.

Eligible graduates contacted in follow-up study
1
Placement rate
100%

#### Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$44,800 \$21.54



WATC > Airbrush Technology, COC

## Airbrush Technology, COC

| CRN               | Course Name                          | Credits |
|-------------------|--------------------------------------|---------|
| Required Tech     | nical Courses                        |         |
| ACP 115 Introduc  | ction to Airbrush                    | 3       |
| ACP 120 Interme   | diate Airbrush I                     | 3       |
| ACP 125 Interme   | diate Airbrush II                    | 3       |
| ACP 160 Advanc    | ed Airbrush                          | 3       |
| OR                |                                      |         |
| addition          | al ACP elective (see below)          |         |
| AVC 102 Precision | on Instruments                       | 1       |
| AVC 104 Quality   | Control Concepts                     | 1       |
| AVC 110 Safety/0  |                                      | 1       |
| Electives (if tak | en in place of ACP 160)              |         |
| ACP 100 Introduc  | ction to Coatings & Paint Technology | 4 3     |
| ACP 101 Surface   | Preparation & Coatings               | 4       |
| ACP 102 Perform   | nance & Durability of Coatings       | 3       |
| ACP 103 Color T   | echnology                            | 3       |
| ACP 104 Special   | ized Coating Processes               | 3       |
| ACP 105 Special   | ized Detailing                       | 3       |
| ACP 106 Aerospa   | ace Coatings & Materials             | 3       |
| ACP 107 Aerospa   | ace Program Management               | 3       |
| ACP 111 Technic   | cal Co-Operative Project             | 4       |
| Total             |                                      | 15      |

\*Some courses may have a prerequisite in addition to the classes listed above. Please <u>contact an Academic Coach</u> for details. Visit <u>watc.edu/checklist</u> for program admission requirements.

#### Start Dates

June 2014 January 2015 August 2014 March 2015 October 2014 June 2015

#### Location

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

|          | Costs*     |  |
|----------|------------|--|
| Tuition  | \$2,043.00 |  |
| Fees     | \$443.00   |  |
| Lab Fees | \$389.00   |  |
| TOTAL    | \$2,875.00 |  |
| TOTAL    | \$2,675.00 |  |

\*Cost does not include online fees, books or tools.

Financial Assistance may be available to those who qualify.

#### Success Rate

This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical
College postsecondary program completers. WATC defines success as those graduates who have found placement in a job, the military or are enrolled in advanced study.

Eligible graduates contacted in follow-up study
1
Placement rate
100%

#### Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$44,800 \$21.54



WATC > Architectural Design Technology, AAS

## Architectural Design Technology, AAS

### Curriculum

| CRN Course Name                                       | Credits |
|-------------------------------------------------------|---------|
| Required Technical Courses                            |         |
| ORI 005 Manufacturing Orientation                     | 0       |
| AVC 112Blueprint Reading                              | 2       |
| MCD 112 Industrial Materials & Processes              | 2       |
| MCD 101 Introduction to CAD I                         | 3       |
| MCD 102 Introduction to CAD II                        | 2       |
| MCD 105 Technical Drafting I                          | 1       |
| MCD 114 Architectural Drafting & Design               | 3       |
| MCD 115 Machine Drafting & Design                     | 3       |
| MCD 121 Descriptive Geometry                          | 3       |
| MCD 122 Architectural CAD                             | 4       |
| MCD 124 Advanced AutoCAD                              | 4       |
| MCD 132 Basic Chief Architect/Architectural Desktop   | 3       |
| MCD 134 Advanced Chief Architect/Architectural Deskto | р 3     |
| MCD 140 Drafting Technology Internship                | 4       |
| OR                                                    |         |
| CAT 101 CATIA Part Design & Sketcher                  |         |
| MCD 205 Residential Drafting                          | 3       |
| MCD 206 Commercial Drafting & Design                  | 3       |
| PVD 105 Global Professional Standards                 | 2       |
| Required General Education Courses                    |         |
| CED 115 Computer Applications                         | 3       |
| PSY 101 General Psychology                            | 3       |
| OR                                                    |         |
| SOC 101 Principles of Sociology                       |         |
| ENG 101 Composition I                                 | 3       |
| MTH 112 College Algebra                               | 3       |
| SPH 101 Public Speaking                               | 3       |
| OR                                                    |         |
| SPH 111 Interpersonal Communication                   |         |
| Total                                                 | 60      |
|                                                       |         |

<sup>\*</sup>Some courses may have a prerequisite in addition to the classes listed above. Please <u>contact an Academic Coach</u> for details. Visit <u>watc.edu/checklist</u> for program admission requirements.

#### Start Dates

August 2014 October 2014 January 2015 March 2015 June 2015 June 2015

#### Location

National Center for Aviation Training 4004 North Webb Road | Wichita, KS 67226 316.677.1500 Get maps at watc.edu/campuses

|                        | Costs*                  |
|------------------------|-------------------------|
| Tuition                | \$7,152.00              |
| Fees                   | \$1,770.00              |
| Lab Fees               | \$871.00                |
| TOTAL                  | \$9,793.00              |
| *Cost does not include | online fees books or to |

\*Cost does not include online fees, books or tools.

Financial Assistance may be available to those who qualify.

#### Success Rate

This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical
College postsecondary program completers. WATC defines success as those graduates who have found placement in a job, the military or are enrolled in advanced study.

Eligible graduates contacted in follow-up study
4
Placement rate
75%

#### Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$45,580 \$21.91



WATC > Architectural Design Technology, TC

## Architectural Design Technology, TC

### Curriculum

| CRN                  | Course Name                           | Credits |
|----------------------|---------------------------------------|---------|
| Required Technica    | al Courses                            |         |
| ORI 005 Manufactu    | ring Orientation                      | 0       |
| AVC 112Blueprint F   | Reading                               | 2       |
| MCD 112 Industrial N | Naterials & Processes                 | 2       |
| MCD 101 Introductio  | n to CAD I                            | 3       |
| MCD 102 Introductio  | n to CAD II                           | 2       |
| MCD 105 Technical    | Drafting I                            | 1       |
| MCD 114 Architectur  | ral Drafting & Design                 | 3       |
| MCD 115 Machine D    | rafting & Design                      | 3       |
| MCD 121 Descriptive  | e Geometry                            | 3       |
| MCD 122 Architectur  | ral CAD                               | 4       |
| MCD 124 Advanced     | AutoCAD                               | 4       |
|                      | ef Architect/Architectural Desktop    | 3       |
| MCD 134 Advanced     | Chief Architect/Architectural Desktop | 3       |
| PVD 105 Global Pro   | fessional Standards                   | 2       |
| Required General     | Education Courses                     |         |
| CED 101 Computer     | Essentials                            | 2       |
| MTH 101 Intermedia   | te Algebra                            | 3       |
| SPH 101 Public Spe   | eaking                                | 3       |
| OR                   |                                       |         |
| SPH 111 Interpersor  | nal Communication                     |         |
| Total                |                                       | 43      |

<sup>\*</sup>Some courses may have a prerequisite in addition to the classes listed above. Please <u>contact an Academic Coach</u> for details. Visit <u>watc.edu/checklist</u> for program admission requirements.

#### Start Dates

August 2014 October 2014 January 2015 March 2015 June 2015 June 2015

#### Location

National Center for Aviation Training 4004 North Webb Road | Wichita, KS 67226 316.677.1500 Get maps at watc.edu/campuses

|          | Costs*                                                                 |
|----------|------------------------------------------------------------------------|
| Tuition  | \$5,281.00                                                             |
| Fees     | \$1,269.00                                                             |
| Lab Fees | \$729.00                                                               |
| TOTAL    | \$7,279.00                                                             |
|          | online fees, books or tools.<br>nay be available to those who qualify. |

#### Success Rate

This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical
College postsecondary program completers. WATC defines success as those graduates who have found placement in a job, the military or are enrolled in advanced study.

Eligible graduates contacted in follow-up study
4
Placement rate
75%

#### Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$45,580 \$21.91



WATC > Chief Architect, COC

## Chief Architect, COC

| CRN                | Course Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Credits |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Required Technic   | cal Courses                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |         |
| ORI 005 Manufacti  | uring Orientation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0       |
| MCD 112 Industrial | Materials & Processes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2       |
| MCD 132 Basic Chi  | ief Architect/Architectural Desktop                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3       |
| MCD 134 Advanced   | I Chief Architect/Architectural Desktop                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3       |
| PVD 105 Global Pro | ofessional Standards                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2       |
| Required Genera    | I Education Courses                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         |
| MTH 101 Intermedia | ate Algebra                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3       |
| Total              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 13      |
| *0                 | and the second control of the second of the |         |

<sup>\*</sup>Some courses may have a prerequisite in addition to the classes listed above. Please <u>contact an Academic Coach</u> for details. Visit <u>watc.edu/checklist</u> for program admission requirements.

#### Start Dates

August 2014 October 2014 January 2015 March 2015 June 2015 June 2015

#### Location

National Center for Aviation Training 4004 North Webb Road | Wichita, KS 67226 316.677.1500 Get maps at watc.edu/campuses

|          | Costs*     |  |
|----------|------------|--|
| Tuition  | \$1,459.00 |  |
| Fees     | \$384.00   |  |
| Lab Fees | \$261.00   |  |
| TOTAL    | \$2,104.00 |  |

<sup>\*</sup>Cost does not include online fees, books or tools. Financial Assistance may be available to those who qualify.

#### Success Rate

This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical College postsecondary program completers. WATC defines success as those graduates who have found placement in a job, the military or are enrolled in advanced study.

Eligible graduates contacted in follow-up study 4
Placement rate 75%

#### Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$45,580 \$21.91



WATC > Auto Collision Repair, AAS

## Auto Collision Repair, AAS Curriculum

| CF   | RN Course Name                          | Credits |
|------|-----------------------------------------|---------|
| Requ | uired Technical Courses                 |         |
| PVD  | 105 Global Professional Standards       | 2       |
| TAC  | 131 Structural Analysis & Damage I      | 2       |
| TAC  | 132 Structural Analysis & Damage II     | 2       |
| TAC  | 133 Structural Analysis & Damage III    | 3       |
| TAC  | 134 Structural Analysis & Damage IV     | 3       |
| TAC  | 141 Paint & Refinish I                  | 3       |
| TAC  | 142 Paint & Refinish II                 | 3       |
| TAC  | 143 Paint & Refinish III                | 3       |
| TAC  | 144 Paint & Refinish IV                 | 4       |
| TAC  | 151 Nonstructural Analysis & Damage I   | 4       |
| TAC  | 152 Nonstructural Analysis & Damage II  | 4       |
| TAC  | 153 Nonstructural Analysis & Damage III | 4       |
| TAC  | 154 Nonstructural Analysis & Damage IV  | 5       |
| TAC  | 160 Mechanical & Electrical Components  | 3       |
| Requ | uired General Education Courses         |         |
| CED  | 115 Computer Applications               | 3       |
| PSY  | 101 General Psychology                  | 3       |
| CHM  | 1110 General Chemistry                  | 5       |
|      | OR                                      |         |
| PHS  | 110 Physical Science                    |         |
| ENG  | 101 Composition I                       | 3       |
| MTH  | 112 College Algebra                     | 3       |
| SPH  | 101 Public Speaking                     | 3       |
|      | OR                                      |         |
| SPH  | 111 Interpersonal Communication         |         |
| Tota | I                                       | 65      |

<sup>\*</sup>Some courses may have a prerequisite in addition to the classes listed above. Please <u>contact an Academic Coach</u> for details. Visit <u>watc.edu/checklist</u> for program admission requirements.

Start Dates

August 2014 October 2014 January 2015 March 2015 June 2015 June 2015

#### Location

Grove Campus

301 S. Grove | Wichita, KS 67211

316.677.9400 Get maps at watc.edu/campuses

|          | Costs*     |
|----------|------------|
| Tuition  | \$6,030.00 |
| Fees     | \$1,918.00 |
| Lab Fees | \$1,463.00 |
| TOTAL    | \$9,411.00 |
|          |            |

\*Cost does not include online fees, books or tools.

Financial Assistance may be available to those who qualify.

#### Success Rate

This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical College postsecondary program completers. WATC defines success as those graduates who have found placement in a job, the military or are enrolled in advanced study.

Eligible graduates contacted in follow-up study

Placement rate 100%

#### Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$50,240 \$24.15



WATC > Auto Collision Repair, TC

## Auto Collision Repair, TC

| CR                         | N Course Name                           | Credits |  |
|----------------------------|-----------------------------------------|---------|--|
| Required Technical Courses |                                         |         |  |
| TAC                        | 131 Structural Analysis & Damage I      | 2       |  |
| TAC                        | 132 Structural Analysis & Damage II     | 2       |  |
| TAC                        | 133 Structural Analysis & Damage III    | 3       |  |
| TAC                        | 134 Structural Analysis & Damage IV     | 3       |  |
| TAC                        | 141 Paint & Refinish I                  | 3       |  |
| TAC                        | 142 Paint & Refinish II                 | 3       |  |
| TAC                        | 143 Paint & Refinish III                | 3       |  |
| TAC                        | 144 Paint & Refinish IV                 | 4       |  |
| TAC                        | 151 Nonstructural Analysis & Damage I   | 4       |  |
| TAC                        | 152 Nonstructural Analysis & Damage II  | 4       |  |
| TAC                        | 153 Nonstructural Analysis & Damage III | 4       |  |
| TAC                        | 154 Nonstructural Analysis & Damage IV  | 5       |  |
| TAC                        | 160 Mechanical & Electrical Components  | 3       |  |
| Requ                       | uired General Education Courses         |         |  |
| CED                        | 101 Computer Essentials                 | 2       |  |
| MTH                        | 020 Math Fundamentals                   | 3       |  |
| SPH                        | 101 Public Speaking                     | 3       |  |
|                            | OR                                      |         |  |
| SPH                        | 111 Interpersonal Communication         |         |  |
| Tota                       |                                         | 51      |  |

\*Some courses may have a prerequisite in addition to the classes listed above. Please <u>contact an Academic Coach</u> for details. Visit <u>watc.edu/checklist</u> for program admission requirements.

Start Dates

August 2014 October 2014 January 2015 March 2015 June 2015 June 2015

#### Location

Grove Campus

301 S. Grove | Wichita, KS 67211

316.677.9400 Get maps at watc.edu/campuses

|          | Costs*     |  |
|----------|------------|--|
| Tuition  | \$5,148.00 |  |
| Fees     | \$1,505.00 |  |
| Lab Fees | \$1,372.00 |  |
| TOTAL    | \$8,025.00 |  |

\*Cost does not include online fees, books or tools.

Financial Assistance may be available to those who qualify.

#### Success Rate

This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical College postsecondary program completers. WATC defines success as those graduates who have found placement in a job, the military or are enrolled in advanced study.

Eligible graduates contacted in follow-up study

Placement rate 100%

#### Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$50,240 \$24.15



WATC > Auto Service Technology, AAS

## Auto Service Technology, AAS Curriculum

| SPH 111 Interpersonal Communication |  |  |  |
|-------------------------------------|--|--|--|
|                                     |  |  |  |
|                                     |  |  |  |

<sup>\*</sup>Some courses may have a prerequisite in addition to the classes listed above. Please <u>contact an Academic Coach</u> for details. Visit <u>watc.edu/checklist</u> for program admission requirements.

Start Dates

August 2014 October 2014 January 2015 March 2015 June 2015 June 2015

#### Location

**Grove Campus** 

301 S. Grove | Wichita, KS 67211

316.677.9400 Get maps at watc.edu/campuses

|          | Costs*     |  |  |
|----------|------------|--|--|
| Tuition  | \$5,471.00 |  |  |
| Fees     | \$1,918.00 |  |  |
| Lab Fees | \$1,526.00 |  |  |
| TOTAL    | \$8,915.00 |  |  |
|          |            |  |  |

<sup>\*</sup>Cost does not include online fees, books or tools.

Financial Assistance may be available to those who qualify.

#### Success Rate

This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical
College postsecondary program completers. WATC defines success as those graduates who have found placement in a job, the military or are enrolled in advanced study.

Eligible graduates contacted in follow-up study
26
Placement rate
92%

#### Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$37,120 \$17.84



WATC > Auto Service Technology, TC

### Auto Service Technology, TC Curriculum

| CRN                                   | Course Name                                | Credits |  |
|---------------------------------------|--------------------------------------------|---------|--|
| Required Technical Courses            |                                            |         |  |
| PVD 105 Global Professional Standards |                                            |         |  |
| TAS 121 En                            | igine Repair                               | 4       |  |
| TAS 123 Su                            | spension & Steering Systems                | 4       |  |
| TAS 124 Ele                           | ectrical & Electronic Systems I            | 3       |  |
| TAS 125Ele                            | ectrical & Electronic Systems II           | 5       |  |
| TAS 126 Ma                            | anual Transmission/Transaxle & Drive Train | 4       |  |
| TAS 127 Au                            | tomatic Transmission Repair                | 4       |  |
| TAS 128 He                            | eating & Air Conditioning                  | 4       |  |
| TAS 131En                             | igine Performance I                        | 3       |  |
| TAS 132En                             | igine Performance II                       | 5       |  |
| TAS 133 Au                            | tomotive Brake Systems I                   | 3       |  |
| TAS 134 Au                            | tomotive Brake Systems II                  | 1       |  |
| Required General Education Courses    |                                            |         |  |
| CED 101 Computer Essentials           |                                            |         |  |
| MTH 020 Math Fundamentals             |                                            |         |  |
| Total                                 |                                            |         |  |
|                                       |                                            |         |  |

<sup>\*</sup>Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Coach for details. Visit watc.edu/checklist for program admission requirements.

Start Dates

August 2014 October 2014 January 2015 March 2015 June 2015 June 2015

#### Location

**Grove Campus** 

301 S. Grove | Wichita, KS 67211

316.677.9400 Get maps at watc.edu/campuses

|                       | Costs*                  |  |  |
|-----------------------|-------------------------|--|--|
| Tuition               | \$4,241.00              |  |  |
| Fees                  | \$1,387.00              |  |  |
| Lab Fees              | \$1,333.00              |  |  |
| TOTAL                 | \$6,961.00              |  |  |
| *Coot doos not includ | a anlina face, backs or |  |  |

<sup>\*</sup>Cost does not include online fees, books or tools.

Financial Assistance may be available to those who qualify.

#### Success Rate

This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical College postsecondary program completers. WATC defines success as those graduates who have found placement in a job, the military or are enrolled in advanced study.

Eligible graduates contacted in follow-up study 26

Placement rate 92%

#### Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$37,120 \$17.84



WATC > Automotive Transmissions/Transaxle, COC

CRN

### **Automotive** Transmissions/Transaxle, COC Curriculum

Course Name

Required Technical Courses TAS 124 Electrical & Electronic Systems I 3 TAS 125 Electrical & Electronic Systems II 5 TAS 126 Manual Transmission/Transaxle & Drive Train 4 TAS 135 Automotive Computer Systems 3 Total 15 \*Some courses may have a prerequisite in addition to the classes Start Dates

August 2014 October 2014 January 2015 March 2015 June 2015 June 2015

#### Location

**Grove Campus** 

301 S. Grove | Wichita, KS 67211

316.677.9400 Get maps at watc.edu/campuses

|                        | Costs*                     |
|------------------------|----------------------------|
| Tuition                | \$1,425.00                 |
| Fees                   | \$443.00                   |
| Lab Fees               | \$507.00                   |
| TOTAL                  | \$2,375.00                 |
| *Cost does not include | e online fees, books or to |

Financial Assistance may be available to those who qualify.

#### Success Rate

Credits

This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical College postsecondary program completers. WATC defines success as those graduates who have found placement in a job, the military or are enrolled in advanced study. Eligible graduates contacted in follow-up study 26 Placement rate 92%

#### Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$37,120 \$17.84

listed above. Please contact an Academic Coach for details. Visit watc.edu/checklist for program admission requirements.



WATC > Aviation Maintenance Technology, AAS

Course Name

## Aviation Maintenance Technology, AAS

### Curriculum

AMT 204 Engine Fuel Systems

CRN

Start Dates

August 2014 January 2015 May 2015 August 2015

#### Location

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

| CRIN Course maine                                      | Credits | 3 10.077.9400 Get maps at watc.e     | du/campuses              |              |
|--------------------------------------------------------|---------|--------------------------------------|--------------------------|--------------|
| General Curriculum (must be complete before Airframe & |         |                                      |                          |              |
| Powerplant Curriculum)                                 |         | Со                                   | sts*                     |              |
| ORI 010 Aviation Maintenance Orientation               | 0       | Tuition \$2                          | 20,835.00                |              |
| AMT 105 Technical Mathematics                          | 2       | Fees \$3                             | 3,894.00                 |              |
| AMT 107 Aircraft Drawings                              | 1       | Lab Fees \$6                         | 670.00                   |              |
| AMT 109 Physics                                        | 2       | TOTAL \$2                            | 25,399.00                |              |
| AMT 111 Materials & Processes                          | 4       | *Cost does not include online fees   | s, books or tools.       |              |
| AMT 113 Basic Electricity                              | 4       | Financial Assistance may be avail    | able to those who qualif | y.           |
| AMT 115 Weight & Balance                               | 2       |                                      |                          |              |
| AMT 117 Mechanics Privileges & Limitations             | 1       | Succe                                | ss Rate                  |              |
| AMT 119 Maintenance Publications, Forms, & Records     | 2       | This chart contains the results of t | the one-year follow-up   |              |
| AMT 123 Cleaning & Corrosion Control                   | 1       | study conducted of 2013 Wichita      |                          |              |
| AMT 125 Fluid Lines & Fittings                         | 1       | College postsecondary program of     |                          |              |
| AMT 127 Ground Operations & Service                    | 2       | success as those graduates who       |                          | n a job, the |
| AMT 131 General Review & Test                          | 0       | military or are enrolled in advance  |                          |              |
| Airframe I Curriculum                                  |         | Eligible graduates contacted in foll | low-up study             | 6            |
| AMT 108 Aircraft Coverings                             | 2       | Placement rate                       |                          | 100%         |
| AMT 112 Assembly & Rigging                             | 4       |                                      |                          |              |
| AMT 153 Hydraulic & Pneumatic Power Systems            | 2       |                                      | ages                     |              |
| AMT 159 Aircraft Fuel Systems                          | 2       | BLS Data Source: Bureau of Labo      |                          |              |
| AMT 167 Aircraft Welding                               | 2       | selected occupation in Wichita, KS   | S. WATC does not guar    | antee the    |
| AMT 177 Wood Structures                                | 1       | below wages.                         | I louwh.                 |              |
| AMT 179 Aircraft Sheetmetal & Non-Metallic Structures  | 7       | Annually                             | Hourly                   |              |
| AMT 183 Aircraft Finishes                              | 2       | \$57,380                             | \$27.58                  |              |
| Airframe II Curriculum                                 |         |                                      |                          |              |
| AMT 116 Aircraft Instrument Systems                    | 1       |                                      |                          |              |
| AMT 120 Airframe Inspection                            | 3       |                                      |                          |              |
| AMT 151 Aircraft Electrical Systems                    | 6       |                                      |                          |              |
| AMT 155 Aircraft Landing Gear Systems                  | 4       |                                      |                          |              |
| AMT 161 Fire Protection Systems                        | 1       |                                      |                          |              |
| AMT 163 Ice & Rain Control Systems                     | 1       |                                      |                          |              |
| AMT 165 Cabin Atmosphere Control Systems               | 2       |                                      |                          |              |
| AMT 169 Communication & Navigation Systems             | 2       |                                      |                          |              |
| AMT 173 Position & Warning Systems                     | 1       |                                      |                          |              |
| AMT 186 Airframe Review & Test                         | 0       |                                      |                          |              |
| Powerplant I Curriculum                                |         |                                      |                          |              |
| AMT 136 Propellers                                     | 4       |                                      |                          |              |
| AMT 200 Reciprocating Engines                          | 9       |                                      |                          |              |
|                                                        |         |                                      |                          |              |

35

| AMT        | 206 Auxiliary Power Units              | 1   |
|------------|----------------------------------------|-----|
| AMT        | 227 Turbine Engines                    | 8   |
| Powe       | erplant II Curriculum                  |     |
| AMT        | 202 Engine Inspection                  | 2   |
| AMT        | 203 Powerplant Ignition Systems        | 3   |
| AMT        | 207 Fuel Metering Systems              | 4   |
| AMT        | 208 Engine Electrical Systems          | 2   |
| AMT        | 211 Powerplant Cooling Systems         | 1   |
| AMT        | 213 Lubrication Systems                | 3   |
| AMT        | 217 Induction Systems                  | 1   |
| AMT        | 219 Powerplant Exhaust Systems         | 2   |
| AMT        | 223 Powerplant Fire Protection Systems | 1   |
| AMT        | 225 Powerplant Instrument Systems      | 1   |
| AMT        | 231 Powerplant Test & Review           | 0   |
| Requ       | uired General Education Courses        |     |
| CED        | 115 Computer Applications              | 3   |
| <b>ENG</b> | 101 Composition I                      | 3   |
| MTH        | 112 College Algebra                    | 3   |
| PSY        | 101 General Psychology                 | 3   |
|            | OR                                     |     |
| SOC        | 101 Principles of Sociology            |     |
| SPH        | 111 Interpersonal Communication        | 3   |
| Tota       | I                                      | 123 |
|            |                                        |     |

<sup>\*</sup>Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Coach for details. Visit watc.edu/checklist for program admission requirements.



1 2

1

1

2

0

2

4

2

2

2

1

7

2

1

WATC > Airframe, TC

# Airframe, TC

Curriculum CRN Course Name General Curriculum (must be complete before Airframe Curriculum) ORI 010 Aviation Maintenance Orientation AMT 105 Technical Mathematics

AMT 107 Aircraft Drawings AMT 109 Physics AMT 111 Materials & Processes AMT 113 Basic Electricity AMT 115 Weight & Balance AMT 117 Mechanics Privileges & Limitations AMT 119 Maintenance Publications, Forms, & Records AMT 123 Cleaning & Corrosion Control AMT 125 Fluid Lines & Fittings AMT 127 Ground Operations & Service

Airframe I Curriculum AMT 108 Aircraft Coverings AMT 112 Assembly & Rigging AMT 153 Hydraulic & Pneumatic Power Systems AMT 159 Aircraft Fuel Systems

AMT 131 General Review & Test

AMT 177 Wood Structures AMT 179 Aircraft Sheetmetal & Non-Metallic Structures

AMT 183 Aircraft Finishes Airframe II Curriculum AMT 116 Aircraft Instrument Systems

Total

AMT 167 Aircraft Welding

3 AMT 120 Airframe Inspection 6 AMT 151 Aircraft Electrical Systems AMT 155 Aircraft Landing Gear Systems 4 AMT 161 Fire Protection Systems 1 AMT 163 Ice & Rain Control Systems 1 AMT 165 Cabin Atmosphere Control Systems 2 2 AMT 169 Communication & Navigation Systems AMT 173 Position & Warning Systems 1 AMT 186 Airframe Review & Test 0

# Start Dates

August 2014 January 2015 May 2015 August 2015

### Location

Credits National Center for Aviation Training 4004 N. Webb Road | Wichita, KS 67226 316.677.9400 Get maps at watc.edu/campuses 0

2 Costs\* 1 **Tuition** \$11.900.00 2 Fees \$2,065.00 4 Lab Fees \$670.00 4 TOTAL \$14,635.00 2

\*Cost does not include online fees, books or tools.

Financial Assistance may be available to those who qualify.

### Success Rate

This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical College postsecondary program completers. WATC defines

success as those graduates who have found placement in a job, the military or are enrolled in advanced study.

Eligible graduates contacted in follow-up study

Placement rate 100%

# Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$57,380 \$27.58

<sup>\*</sup>Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Coach for details. Visit watc.edu/checklist for program admission requirements.



Start Dates August 2014 January 2015

May 2015 August 2015

Location

WATC > Powerplant, TC

# Powerplant, TC

Curriculum

|                                                               |                             |                                       |         | 200000                         | ••                                                                      |          |
|---------------------------------------------------------------|-----------------------------|---------------------------------------|---------|--------------------------------|-------------------------------------------------------------------------|----------|
|                                                               | CRN                         | Course Name                           | Credits | National Center for Aviation   | •                                                                       |          |
|                                                               | General Curriculum (mus     | st be complete before Airframe &      |         | 4004 N. Webb Road   Wich       |                                                                         |          |
|                                                               | Powerplant Curriculum)      |                                       |         | 316.677.9400 Get maps at       | watc.edu/campuses                                                       |          |
|                                                               | ORI 010 Aviation Maintena   | ance Orientation                      | 0       |                                |                                                                         |          |
|                                                               | AMT 105 Technical Mather    | matics                                | 2       |                                | Costs*                                                                  |          |
|                                                               | AMT 107 Aircraft Drawings   | 3                                     | 1       | Tuition                        | \$11,900.00                                                             |          |
|                                                               | AMT 109 Physics             |                                       | 2       | Fees                           | \$2,065.00                                                              |          |
|                                                               | AMT 111 Materials & Proce   | esses                                 | 4       | Lab Fees                       | \$70.00                                                                 |          |
|                                                               | AMT 113 Basic Electricity   |                                       | 4       | TOTAL                          | \$14,035.00                                                             |          |
|                                                               | AMT 115 Weight & Balanc     |                                       | 2       | *Cost does not include onli    |                                                                         |          |
|                                                               | AMT 117 Mechanics Privile   | eges & Limitations                    | 1       | Financial Assistance may b     | be available to those who qualify.                                      |          |
|                                                               | AMT 119 Maintenance Pub     | olications, Forms, & Records          | 2       |                                |                                                                         |          |
|                                                               | AMT 123 Cleaning & Corro    | sion Control                          | 1       |                                | Success Rate                                                            |          |
|                                                               | AMT 125 Fluid Lines & Fitti | ings                                  | 1       |                                | ults of the one-year follow-up                                          |          |
|                                                               | AMT 127 Ground Operation    | ns & Service                          | 2       | study conducted of 2013 W      |                                                                         |          |
|                                                               | AMT 131 General Review 8    | & Test                                | 0       |                                | ogram completers. WATC defines                                          |          |
|                                                               | Powerplant I Curriculum     |                                       |         |                                | es who have found placement in a                                        | job, the |
|                                                               | AMT 136 Propellers          |                                       | 4       | military or are enrolled in ac |                                                                         | 64       |
|                                                               | AMT 200 Reciprocating En    | ngines                                | 9       | Eligible graduates contacte    | a in follow-up study                                                    | 64       |
|                                                               | AMT 204 Engine Fuel Syst    | ems                                   | 1       | Placement rate                 |                                                                         | 97%      |
|                                                               | AMT 206 Auxiliary Power U   | Jnits                                 | 1       |                                | \\/a = a = a                                                            |          |
|                                                               | AMT 227 Turbine Engines     |                                       | 8       | DI O Data Carrier Brown        | Wages                                                                   |          |
|                                                               | Powerplant II Curriculum    | า                                     |         |                                | of Labor Statistics (2012); Mean W<br>chita, KS. WATC does not guarante |          |
|                                                               | AMT 202 Engine Inspection   | n                                     | 2       | below wages.                   | mila, KS. WATC does not guarante                                        | ee trie  |
|                                                               | AMT 203 Powerplant Ignition | on Systems                            | 3       | Annually                       | Hourly                                                                  |          |
|                                                               | AMT 207 Fuel Metering Sys   |                                       | 4       | \$57,380                       | \$27.58                                                                 |          |
|                                                               | AMT 208 Engine Electrical   |                                       | 2       | <b>437</b> ,300                | Ψ21.30                                                                  |          |
|                                                               | AMT 211 Powerplant Cooli    | ng Systems                            | 1       |                                |                                                                         |          |
|                                                               | AMT 213 Lubrication Syste   | ems                                   | 3       |                                |                                                                         |          |
|                                                               | AMT 217 Induction System    | is                                    | 1       |                                |                                                                         |          |
|                                                               | AMT 219 Powerplant Exha     | ust Systems                           | 2       |                                |                                                                         |          |
|                                                               | AMT 223 Powerplant Fire F   | Protection Systems                    | 1       |                                |                                                                         |          |
|                                                               | AMT 225 Powerplant Instru   | ıment Systems                         | 1       |                                |                                                                         |          |
|                                                               | AMT 231 Powerplant Test     | & Review                              | 0       |                                |                                                                         |          |
|                                                               | Total                       |                                       | 65      |                                |                                                                         |          |
|                                                               | *Some courses may have      | a prerequisite in addition to the cla | asses   |                                |                                                                         |          |
| listed above. Please contact an Academic Coach for details. V |                             |                                       |         |                                |                                                                         |          |
|                                                               | watc.edu/checklist for prog | ram admission requirements.           |         |                                |                                                                         |          |
|                                                               |                             |                                       |         |                                |                                                                         |          |



Start Dates January 2015 August 2015

Location

National Center for Aviation Training

WATC > Avionics, AAS

# Avionics, AAS

# Curriculum

|                                       |                                                  |         | radional Conton io                   | n / Widtion Training                                                         |            |
|---------------------------------------|--------------------------------------------------|---------|--------------------------------------|------------------------------------------------------------------------------|------------|
| CRN                                   | Course Name                                      | Credits | 4004 N. Webb Ro                      | oad   Wichita, KS 67226                                                      |            |
| Required Technical                    | Courses                                          |         | 316.677.9400 Get                     | maps at watc.edu/campuses                                                    |            |
| AVT 101 Basic Electr                  | ricity & Electronics                             | 3       |                                      |                                                                              |            |
|                                       | ricity & Electronics Lab                         | 3       |                                      | Costs*                                                                       |            |
| AVT 103 Introduction                  | to Avionics                                      | 3       | Tuition                              | \$7,695.00                                                                   |            |
| AVT 105 Avionics Sys                  | stems & Troubleshooting                          | 2       | Fees                                 | \$1,918.00                                                                   |            |
|                                       | stems & Troubleshooting Lab                      | 3       | Lab Fees                             | \$3,156.00                                                                   |            |
| AVT 108 Wiring & Ca                   | nnon Plug Lab                                    | 2       | TOTAL                                | \$12,769.00                                                                  |            |
| Systems (P                            | etrical, Communication, & Navigation art 1)      | 3       |                                      | clude online fees, books or tools.<br>nce may be available to those who qual | ify.       |
| Systems (P                            | etrical, Communication, & Navigation art 1) Lab  | 3       |                                      | Success Rate                                                                 |            |
| Systems (P                            | strical, Communication, & Navigation art 2)      | 2       |                                      | is the results of the one-year follow-up of 2013 Wichita Area Technical      |            |
| AVT 113 Aircraft Elec<br>Systems (P   | etrical, Communications, & Navigation art 2) Lab | 3       | success as those                     | ndary program completers. WATC defi<br>graduates who have found placement    |            |
|                                       | munications Electronics Lab                      | 3       | •                                    | olled in advanced study.                                                     |            |
| AVT 122 Practical Ele<br>Applications | ectronics Technology for NCATT                   | 4       | Eligible graduates<br>Placement rate | contacted in follow-up study                                                 | 7<br>100%  |
| AVT 125 Digital Elect                 | ronics Fundamentals                              | 2       |                                      |                                                                              |            |
| AVT 126 Digital Elect                 | ronics Fundamentals Lab                          | 2       |                                      | Wages                                                                        |            |
| AVT 135 Advanced A                    | nalog & Digital Communications                   | 2       |                                      | : Bureau of Labor Statistics (2012); Me                                      |            |
| AVT 136 Advanced A                    | nalog & Digital Communications Lab               | 2       |                                      | on in Wichita, KS. WATC does not gua                                         | rantee the |
| MTH 020 Math Funda                    | mentals                                          | 3       | below wages.                         |                                                                              |            |
| PVD 105 Global Profe                  | essional Standards                               | 2       | Annually                             | Hourly                                                                       |            |
| Required General E                    | Education Courses                                |         | \$62,340                             | \$29.97                                                                      |            |
| CED 115 Computer A                    | pplications                                      | 3       |                                      |                                                                              |            |
| ENG 101 Composition                   | n l                                              | 3       |                                      |                                                                              |            |
| MTH 112 College Alge                  |                                                  | 3       |                                      |                                                                              |            |
| PSY 101 General Psy                   |                                                  | 3       |                                      |                                                                              |            |
| SPH 111 Interpersona<br>OR            | al Communication                                 | 3       |                                      |                                                                              |            |
| SPH 101 Public Spea                   | king                                             |         |                                      |                                                                              |            |
| Total                                 |                                                  | 65      |                                      |                                                                              |            |

\*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Coach for details. Visit

watc.edu/checklist for program admission requirements.



WATC > Avionics, TC

# Avionics, TC

Curriculum CRN

| CRN                                        | Course Name                              | Crear |
|--------------------------------------------|------------------------------------------|-------|
| Required Technical C                       | ourses                                   |       |
| AVT 101 Basic Electricit                   | y & Electronics                          | 3     |
| AVT 102 Basic Electricit                   | y & Electronics Lab                      | 3     |
| AVT 103 Introduction to                    | Avionics                                 | 3     |
| AVT 105 Avionics Syste                     | ms & Troubleshooting                     | 2     |
| AVT 106 Avionics Syste                     | ms & Troubleshooting Lab                 | 3     |
| AVT 107 Basic Commu                        | nications Electronics                    | 3     |
| AVT 108 Wiring & Cann                      |                                          | 2     |
| AVT 110 Aircraft Electric<br>Systems (Part | cal, Communication, & Navigation 1)      | 3     |
| AVT 111 Aircraft Electric<br>Systems (Part | cal, Communication, & Navigation 1) Lab  | 3     |
| AVT 112 Aircraft Electric<br>Systems (Part | cal, Communication, & Navigation 2)      | 2     |
| AVT 113 Aircraft Electric<br>Systems (Part | cal, Communications, & Navigation 2) Lab | 3     |
|                                            | nications Electronics Lab                | 3     |
| AVT 125 Digital Electron                   | ics Fundamentals                         | 2     |
| AVT 126 Digital Electron                   | ics Fundamentals Lab                     | 2     |
| MTH 020 Math Fundame                       | ntals                                    | 3     |
| PVD 105 Global Profess                     | ional Standards                          | 2     |
| Total                                      |                                          | 42    |
|                                            |                                          |       |

Course Name

\*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Coach for details. Visit watc.edu/checklist for program admission requirements.

Start Dates January 2015 August 2015

# Location

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

| 3 |                      |                          |
|---|----------------------|--------------------------|
| 3 |                      | Costs*                   |
| 3 | Tuition              | \$5,606.00               |
| 2 | Fees                 | \$1,239.00               |
| 3 | Lab Fees             | \$3,156.00               |
| 3 | TOTAL                | \$10,001.00              |
| 0 | *Coot doos not inclu | do onlino foco, booko or |

- Cost does not include online fees, books or tools.
  - Financial Assistance may be available to those who qualify.

# Success Rate

This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical

College postsecondary program completers. WATC defines

success as those graduates who have found placement in a job, the

military or are enrolled in advanced study.

Eligible graduates contacted in follow-up study Placement rate 100%

### Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$62,340 \$29.97



WATC > Avionics, COC

Start Dates January 2015 August 2015

# Avionics, COC

# Curriculum

| Curricu       | lum                              |                         | National Center for A  | viation Training             |
|---------------|----------------------------------|-------------------------|------------------------|------------------------------|
| CRN           | Course Name                      | Credits                 | 4004 N. Webb Road      | Wichita, KS 67226            |
| Required Te   | echnical Courses                 |                         | 316.677.9400 Get ma    | aps at watc.edu/campuses     |
| AVT 101 Bas   | ic Electricity & Electronics     | 3                       |                        |                              |
| AVT 102 Bas   | ic Electricity & Electronics Lab | 3                       |                        | Costs*                       |
| AVT 103 Intro | duction to Avionics              | 3                       | Tuition                | \$1,573.00                   |
| AVT 108Wiri   | ng & Cannon Plug Lab             | 2                       | Fees                   | \$325.00                     |
| MTH 020 Math  | n Fundamentals                   | 3                       | Lab Fees               | \$408.00                     |
| Total         |                                  | 14                      | TOTAL                  | \$2,306.00                   |
| *Some cours   | es may have a prerequisite in    | addition to the classes | *Cost does not include | de online fees, books or too |

Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Coach for details. Visit watc.edu/checklist for program admission requirements.

Location

Financial Assistance may be available to those who qualify.

# Success Rate

This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical College postsecondary program completers. WATC defines success as those graduates who have found placement in a job, the military or are enrolled in advanced study. Eligible graduates contacted in follow-up study Placement rate 100%

# Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Hourly Annually \$62,340 \$29.97

Cost does not include online fees, books or tools.



WATC > Business Administration, AAS

# Business Administration, AAS

| Cui        | rriculum                           |              |
|------------|------------------------------------|--------------|
| CR         | RN Course Name                     | Credits      |
| Requ       | uired Technical Courses            |              |
| ART        | 100 Art Appreciation               | 3            |
| <b>ENG</b> | 120 Composition II                 | 3            |
| PHL        | 115Logic                           | 3            |
|            | tives (minimum of 15 credit hou    | rs required) |
|            | 152 Payroll Accounting             | 3            |
| BAF        | 105 Introduction to US Financial S |              |
|            | 120 Environmental Biology          | 3            |
|            | 104 Introduction to Business       | 3            |
|            | 125 Business Law                   | 3            |
|            | 130 Personal Finance               | 3            |
|            | 110 Introduction to Entrepreneurs  |              |
|            | 120 Elementary Statistics          | 3            |
|            | 1115 Introduction to Project Manag |              |
|            | 101 General Psychology             | 3            |
|            | 100 Six Sigma Yellow Belt          | 1            |
|            | 101 Six Sigma Green Belt Method    |              |
|            | 105 Six Sigma Green Belt Statistic |              |
|            | 101 Principles of Sociology        | 3            |
|            | uired General Education Cours      |              |
|            | 130 Managerial Accounting          | 3            |
|            | 160 Principles of Accounting I     | 3            |
|            | 170 Principles of Accounting II    | 3            |
|            | 200 Principles of Management       | 3            |
|            | 115 Computer Applications          | 3            |
|            | 105 Principles of Macroeconomics   |              |
|            | 110 Principles of Microeconomics   |              |
|            | 101 Composition I                  | 3            |
|            | 112 College Algebra                | 3            |
|            | 120 United States History since 18 |              |
| PSY        | 101 General Psychology<br>OR       | 3            |
| SOC        | 101 Principles of Sociology        |              |
| SPH        | 101 Public Speaking                | 3            |
| BIO        | 110 Principles of Biology OR       | 5            |
| CHM        | I 110 General Chemistry OR         |              |
| PHS        | 110 Physical Science               |              |

Total

Start Dates

June 2014 January 2015 August 2014 March 2015 October 2014 June 2015

# Location

Southside Center

4501 E. 47th Street South | Wichita, KS 67210 316.677.9400 Get maps at watc.edu/campuses

| (        | Costs*     |
|----------|------------|
| Tuition  | \$3,150.00 |
| Fees     | \$1,475.00 |
| Lab Fees | \$56.00    |
| TOTAL    | \$4,681.00 |
| *O       |            |

\*Cost does not include lab fees, books or tools.

Financial Assistance may be available to those who qualify.

# Success Rate

This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical
College postsecondary program completers. WATC defines success as those graduates who have found placement in a job, the military or are enrolled in advanced study.

Eligible graduates contacted in follow-up study
7
Placement rate
86%

# Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$34,770 \$16.72

65

\*Some courses may have a prerequisite in addition to the classes listed above. Please <u>contact an Academic Coach</u> for details. Visit <u>watc.edu/checklist</u> for program admission requirements.



WATC > Carpentry, Technical Certificate

# Carpentry, Technical Certificate Program Description

The carpentry program prepares students in the basic skills necessary for all occupations in construction. Students begin their study in nine modules, which include: safety; math; materials; hand and power tools; construction drawings; basic rigging; communication; and employability skills. Students then advance to courses which provide hands-on application of technical knowledge and skills. In these courses students will apply all aspects of basic 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.

Evening classe s for Carpe ntry will be available this fall from 5:30-9:45 p.m. on Monday, Tuesday and Thursday. Click HERE to che ck the interactive schedule for specific classe s and times; just select "Fall 2014" and on the following screen enter "CCP" for Carpe ntry.

# Curriculum

| CRN             | Course Name                  | Credits |
|-----------------|------------------------------|---------|
| Required Tecl   | hnical Courses               |         |
| CCP 100 Introdu | uctory Craft Skills          | 3       |
| CCP 105 Carpe   | ntry Basics                  | 4       |
| CCP 110 Floors  | , Walls, Ceiling and Framing | 9 4     |
| CCP 115 Roof a  | and Framing                  | 3       |
| CCP 120 Windo   | ows, Doors and Stairs        | 3       |
| SAF 101 Safety  | Orientation / OSHA 10        | 1       |
| Total           |                              | 18      |

# Admission Requirements & Additional Information

#### Program Checklist

# Accreditation

WATC is accredited by the Higher Learning Commission. The Higher Learning Commission 230 South LaSalle Street, Suite 7-500 • Chicago, IL 60604 <a href="https://www.ncahlc.org">www.ncahlc.org</a> • 800.621.7440

WATC's Grove Campus is a training, assessment and education facility for the National Center for Construction Education and Research (NCCER).

Currently, WATC is accredited in <u>Carpentry</u> and <u>HVAC</u>. Students interested in this program may be eligible to apply for

# Start Dates August 2014 January 2015

### Location

WATC's Grove Campus 301 S. Grove | Wichita, KS 67211 316.677.9400 *Maps* 

|          | Costs*   |
|----------|----------|
| Tuition  | \$1,914  |
| Fees     | \$531.00 |
| Lab Fees | \$150.00 |
| TOTAL    | \$2,595  |

\*Cost does not include online fees, books or tools. Assistance is available to those who qualify.



WATC > Composite Technology, AAS

# Composite Technology, AAS

| CRN             | Course Name                              | Credits |
|-----------------|------------------------------------------|---------|
| Required Tech   | nnical Courses                           |         |
| AER 140 Assem   | nbly Mechanic Orientation                | 1       |
| AVC 102 Precis  | ion Instruments                          | 1       |
| AVC 104 Quality | y Control Concepts                       | 1       |
| AVC 105 Aircraf | t Familiarization                        | 1       |
| AVC 107 Funda   | mentals for Aerospace Manufacturing      | 1       |
| AVC 108 Aircraf | t Systems & Components                   | 4       |
| AVC 110 Safety  | /OSHA 10                                 | 1       |
| AVC 112Bluepr   | int Reading                              | 2       |
| AVC 120 Introdu | uction to Sealing                        | 1       |
| AVC 125 Bondin  | ng and Grounding                         | 1       |
| AVC 135 Hand    | Tools                                    | 1       |
| AVC 140 Electri | cal Bonding and Grounding                | 1       |
| AVC 145 Power   | sland                                    | 1       |
| CFT 101 Introdu | uction to Composites                     | 2       |
| CFT 106 Compo   | osite Finish Trim                        | 2       |
| CFT 107 Compo   | osite Assembly                           | 2       |
| CFT 130 Compo   | osite Fabrication Methods / Applications | 2       |
| CFT 140 Compo   | osite Inspection                         | 2       |
| CFT 141 Disass  | sembly & Damage Removal Techniques       | 3       |
| CFT 142Compo    | osite Repair                             | 4       |
| CFT 143 Compl   | lex Composite Repairs                    | 3       |
| CFT 144 Electri | cal Bonding Repair                       | 1       |
| LEN 100 Lean C  | Operations                               | 3       |
| PDV 105 Global  | Professional Standards                   | 2       |
| Required Gene   | eral Education Courses                   |         |
| CED 115 Comp    | uter Applications                        | 3       |
| ENG 101 Compo   | osition I                                | 3       |
| MTH 112 College | e Algebra                                | 3       |
| CHM 110 Genera  |                                          | 5       |
| SOC 101 Princip | oles of Sociology                        | 3       |
| •               | OR                                       |         |
| PSY 101 Genera  | al Psychology                            |         |
|                 | ersonal Communications                   | 3       |
| Total           |                                          | 63      |

\*Some courses may have a prerequisite in addition to the classes listed above. Please <u>contact an Academic Coach</u> for details. Visit <u>watc.edu/checklist</u> for program admission requirements.

#### Start Dates

June 2014 January 2015 August 2014 March 2015 October 2014 June 2015

# Location

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

|          | Costs*      |
|----------|-------------|
| Tuition  | \$6,682.00  |
| Fees     | \$1,858.50  |
| Lab Fees | \$4,231.00  |
| TOTAL    | \$12,771.50 |

\*Cost does not include online fees, books or tools.

Financial Assistance may be available to those who qualify.

# Success Rate

This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical
College postsecondary program completers. WATC defines success as those graduates who have found placement in a job, the military or are enrolled in advanced study.

Eligible graduates contacted in follow-up study
2
Placement rate
100%

# Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$44,850 \$21.56



WATC > Composite Fabrication, TC

# Composite Fabrication, TC

| CRN            | Course Name                          | Credits    |
|----------------|--------------------------------------|------------|
| Required Ted   | chnical Courses                      |            |
| AER 140 Asser  | mbly Mechanic Orientation            | 1          |
| AVC 102 Precis | sion Instruments                     | 1          |
| AVC 104 Qualit | ty Control Concepts                  | 1          |
| AVC 105 Aircra | aft Familiarization                  | 1          |
| AVC 107 Funda  | amentals for Aerospace Manufacturing | <b>j</b> 1 |
| AVC 108 Aircra | aft Systems & Components             | 4          |
| AVC 110 Safety | y/OSHA 10                            | 1          |
| AVC 112 Bluep  | orint Reading                        | 2          |
| AVC 120 Introd | luction to Sealing                   | 1          |
| AVC 125 Bondi  | ing and Grounding                    | 1          |
| AVC 135 Hand   | Tools                                | 1          |
| AVC 140 Electr | rical Bonding and Grounding          | 1          |
| AVC 145 Powe   | er Island                            | 1          |
| CFT 101 Introd | uction to Composites                 | 2          |
| CFT 106 Comp   | oosite Finish Trim                   | 2          |
| MTH 020 Math   | Fundamentals                         | 3          |
| PDV 105 Globa  | al Professional Standards            | 2          |
| Total          |                                      | 26         |

<sup>\*</sup>Some courses may have a prerequisite in addition to the classes listed above. Please <u>contact an Academic Coach</u> for details. Visit <u>watc.edu/checklist</u> for program admission requirements.

#### Start Dates

June 2014 January 2015 August 2014 March 2015 October 2014 June 2015

Tuition Fees Lab Fees TOTAL

# Location

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

| Costs      |  |
|------------|--|
| \$2,769.00 |  |
| \$767.00   |  |
| \$1,273.00 |  |
| \$4.809.00 |  |

\*Cost does not include online fees, books or tools.

Financial Assistance may be available to those who qualify.

# Success Rate

This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical
College postsecondary program completers. WATC defines success as those graduates who have found placement in a job, the military or are enrolled in advanced study.

Eligible graduates contacted in follow-up study
2
Placement rate
100%

# Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$44,850 \$21.56



WATC > Composite Repair, TC

# Composite Repair, TC Curriculum

| CRN                  | Course Name                           | Credits |
|----------------------|---------------------------------------|---------|
| Required Technic     | cal Courses                           |         |
| =                    | Mechanic Orientation                  | 1       |
| AVC 102 Precision    | Instruments                           | 1       |
| AVC 104 Quality Co   | ontrol Concepts                       | 1       |
| AVC 105 Aircraft Fa  | amiliarization                        | 1       |
| AVC 107 Fundame      | ntals for Aerospace Manufacturing     | 1       |
| AVC 108 Aircraft S   | ystems & Components                   | 4       |
| AVC 110 Safety/OS    | SHA 10                                | 1       |
| AVC 112 Blueprint    |                                       | 2       |
| AVC 120 Introduction | •                                     | 1       |
| AVC 125 Bonding a    |                                       | 1       |
| AVC 135 Hand Too     |                                       | 1       |
|                      | Bonding and Grounding                 | 1       |
| AVC 145 Power Isla   |                                       | 1       |
| CFT 101 Introduction | •                                     | 2       |
| CFT 106 Composit     |                                       | 2       |
| CFT 107 Composit     | •                                     | 2       |
| •                    | te Fabrication Methods / Applications | 2       |
| CFT 140 Composit     |                                       | 2       |
|                      | nbly & Damage Removal Techniques      |         |
| CFT 142 Composit     | •                                     | 4       |
| •                    | Composite Repairs                     | 3       |
| CFT 144 Electrical   | •                                     | 1       |
| MTH 020 Math Fund    |                                       | 3       |
|                      | ofessional Standards                  | 2       |
| •                    | l Education Courses                   |         |
| CED 115 Compute      |                                       | 3       |
| •                    | onal Communications                   | 3       |
| Total                |                                       | 48      |

\*Some courses may have a prerequisite in addition to the classes listed above. Please <u>contact an Academic Coach</u> for details. Visit <u>watc.edu/checklist</u> for program admission requirements.

### Start Dates

June 2014 January 2015 August 2014 March 2015 October 2014 June 2015

# Location

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

|          |      | Costs*      |  |
|----------|------|-------------|--|
| Tuition  |      | \$5,515.00  |  |
| Fees     |      | \$1,416.00  |  |
| Lab Fees |      | \$4,175.00  |  |
| TOTAL    |      | \$11,106.00 |  |
|          | <br> |             |  |

\*Cost does not include online fees, books or tools.

Financial Assistance may be available to those who qualify.

# Success Rate

This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical College postsecondary program completers. WATC defines success as those graduates who have found placement in a job, the military or are enrolled in advanced study.

Eligible graduates contacted in follow-up study

2

Placement rate

100%

# Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$44,850 \$21.56



WATC > Composite Fabrication, COC

# Composite Fabrication, COC Curriculum

| CRN             | Course Name                            | Credits |
|-----------------|----------------------------------------|---------|
| Required Tech   | inical Courses                         |         |
| AVC 110 Safety/ | OSHA 10                                | 1       |
| AVC 112 Bluepri | nt Reading                             | 2       |
| CFT 101 Introdu | ction to Composites                    | 2       |
| CFT 106 Compo   | osite Finish Trim                      | 2       |
| CFT 107 Compo   | osite Assembly                         | 2       |
| CFT 130 Compo   | osite Fabrication Methods/Applications | 2       |
| MTH 020 Math F  | undamentals                            | 3       |
| PDV105 Global   | Professional Standards                 | 2       |
| Total           |                                        | 16      |
|                 |                                        |         |

<sup>\*</sup>Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Coach for details. Visit watc.edu/checklist for program admission requirements.

### Start Dates

June 2014 January 2015 August 2014 March 2015 October 2014 June 2015

# Location

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

|                          | Costs*                      |
|--------------------------|-----------------------------|
| Tuition                  | \$1,786.00                  |
| Fees                     | \$472.00                    |
| Lab Fees                 | \$1,231.00                  |
| TOTAL                    | \$3,489.00                  |
| *Cost does not include o | nline fees, books or tools. |

Financial Assistance may be available to those who qualify.

# Success Rate

This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical College postsecondary program completers. WATC defines success as those graduates who have found placement in a job, the military or are enrolled in advanced study.

Eligible graduates contacted in follow-up study 2 Placement rate 100%

# Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$44,850 \$21.56



Start Dates June 2014 January 2015

August 2014 March 2015 October 2014 June 2015

WATC > Composite Repair, COC

# Composite Repair, COC Curriculum

| CRN              | Course Name                            | Credits | L                     | ocation                         |
|------------------|----------------------------------------|---------|-----------------------|---------------------------------|
| Required Tech    | nnical Courses                         |         | National Center for A | Aviation Training               |
| AVC 102 Precis   | ion Instruments                        | 1       | 4004 N. Webb Road     | Wichita, KS 67226               |
| AVC 110 Safety   | OSHA 10                                | 1       | 316.677.9400 Get m    | aps at watc.edu/campuses        |
| CFT 140 Compo    | osite Inspection                       | 2       |                       |                                 |
| CFT 141 Disass   | sembly & Damage Removal Techniqu       | ues 3   |                       | Costs*                          |
| CFT 142 Compo    | osite Repair                           | 4       | Tuition               | \$2,077.00                      |
| CFT 143 Compl    | ex Composite Repairs                   | 3       | Fees                  | \$433.00                        |
| CFT 144 Electric | cal Bonding Repair                     | 1       | Lab Fees              | \$2,385.00                      |
| Total            | -                                      | 15      | TOTAL                 | \$4,905.00                      |
|                  | may have a prerequisite in addition to |         |                       | de online fees, books or tools. |

watc.edu/checklist for program admission requirements.

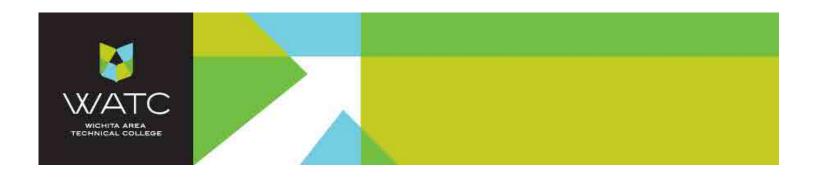
# Success Rate

This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical College postsecondary program completers. WATC defines success as those graduates who have found placement in a job, the military or are enrolled in advanced study. Eligible graduates contacted in follow-up study Placement rate 100%

# Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$44,850 \$21.56



WATC > Dental Assistant, AAS

# Dental Assistant, AAS

# Curriculum

Required General Education Courses Course Name Credits Required Technical Courses DAS 113 Dental Materials I 4 3 DAS 114 Dental Radiology I 2 DAS 119 Dental Anatomy 2 DAS 120 Dental Science 4 DAS 122 Chairside Assisting I 2 DAS 140 Chairside Assisting II DAS 146 Dental Radiology II 1 DAS 147 Dental Practice Management 3 DAS 148 Dental Materials II 1 DAS 149 Infection Control for Dental Practice 2 DAS 150 Clinical Experience 7 DAS 215 Supragingival Scaling 5 Required General Education Courses BIO 150 Human Anatomy and Physiology 5 CED 115 Computer Applications 3 CPR 001 CPR for Healthcare Providers 1 ALH 101 Medical Terminology 3 ALH 131 Diseases, Disorders & Diagnostic Procedures 2 3 PSY 101 General Psychology **ENG 101 Composition I** 3 MTH 112 College Algebra 3 SPH 101 Public Speaking 3 OR SPH 111 Interpersonal Communication Total

#### Start Dates

August 2014 October 2014 January 2015 March 2015 June 2015 June 2015

### Location

Southside Center 4501 E. 47th Street South | Wichita, KS 67210 316.677.1500 Get maps at watc.edu/campuses

|                           | Costs*                       |
|---------------------------|------------------------------|
| Tuition                   | \$5,247.00                   |
| Fees                      | \$1,800.00                   |
| Lab Fees                  | \$1,603.00                   |
| TOTAL                     | \$8,650.00                   |
| *Cost does not include of | online fees, books or tools. |

Financial Assistance may be available to those who qualify.

# Success Rate

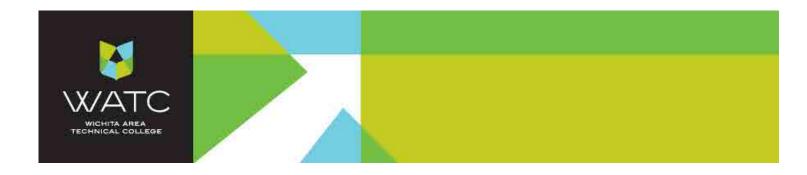
This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical College postsecondary program completers. WATC defines success as those graduates who have found placement in a job, the military or are enrolled in advanced study. Eligible graduates contacted in follow-up study 13 Placement rate 100%

# Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$34,940 \$16.80

<sup>\*</sup>Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Coach for details. Visit watc.edu/checklist for program admission requirements.



WATC > Dental Assistant, TC

# Dental Assistant, TC

# Curriculum

Required General Education Courses

| CRN               | Course Name                    | Credits |
|-------------------|--------------------------------|---------|
| Required Tech     | nical Courses                  |         |
| DAS 113 Dental    | Materials I                    | 4       |
| DAS 114 Dental    | Radiology I                    | 3       |
| DAS 119 Dental    | Anatomy                        | 2       |
| DAS 120 Dental    | Science                        | 2       |
| DAS 122 Chairs    | ide Assisting I                | 4       |
| DAS 140 Chairs    | ide Assisting II               | 2       |
| DAS 146 Dental    | Radiology II                   | 1       |
| DAS 147 Dental    | Practice Management            | 3       |
| DAS 148 Dental    | Materials II                   | 1       |
| DAS 149 Infection | on Control for Dental Practice | 2       |
| DAS 150 Clinica   | l Experience                   | 7       |
| Required Gene     | eral Education Courses         |         |
| BIO 150 Humar     | n Anatomy and Physiology       | 5       |
| CPR 001 CPR fo    | or Healthcare Providers        | 1       |
| Total             |                                | 37      |

<sup>\*</sup>Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Coach for details. Visit watc.edu/checklist for program admission requirements.

Start Dates

August 2014 October 2014 January 2015 March 2015 June 2015 June 2015

# Location

Southside Center 4501 E. 47th Street South | Wichita, KS 67210 316.677.1500 Get maps at watc.edu/campuses

|          |  |  | C | osts*      |
|----------|--|--|---|------------|
| Tuition  |  |  |   | \$3,477.00 |
| Fees     |  |  |   | \$1,062.00 |
| Lab Fees |  |  |   | \$1,231.00 |
| TOTAL    |  |  |   | \$5,770.00 |
|          |  |  |   |            |

<sup>\*</sup>Cost does not include online fees, books or tools.

Financial Assistance may be available to those who qualify.

# Success Rate

This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical College postsecondary program completers. WATC defines success as those graduates who have found placement in a job, the military or are enrolled in advanced study.

Eligible graduates contacted in follow-up study 13
Placement rate 100%

# Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$34,940 \$16.80



WATC > Dental Assisting, COC

# Dental Assisting, COC

# Curriculum

Required General Education Courses Course Name Credits DAS 215 Supragingival Scaling 5 Total 5

\*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Coach for details. Visit watc.edu/checklist for program admission requirements.

Start Dates

August 2014 October 2014 January 2015 March 2015 June 2015 June 2015

### Location

Southside Center

4501 E. 47th Street South | Wichita, KS 67210 316.677.1500 Get maps at watc.edu/campuses

|                        | Costs*                       |
|------------------------|------------------------------|
| Tuition                | \$510.00                     |
| Fees                   | \$148.00                     |
| Lab Fees               | \$372.00                     |
| TOTAL                  | \$1,030.00                   |
| *Cost does not include | online fees, books or tools. |

Financial Assistance may be available to those who qualify.

# Success Rate

This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical College postsecondary program completers. WATC defines success as those graduates who have found placement in a job, the military or are enrolled in advanced study. Eligible graduates contacted in follow-up study 13 Placement rate

100%

# Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$34,940 \$16.80



Start Dates
August 2014 October 2014

January 2015 March 2015 June 2015 June 2015

WATC > Electromechanical Systems, AAS

# Electromechanical Systems, AAS

Curriculum

| CRN        | Course Name                                       | Credits |                   | Location                                                           |             |
|------------|---------------------------------------------------|---------|-------------------|--------------------------------------------------------------------|-------------|
| Required   | Technical Courses                                 |         | Grove Campus      | ;                                                                  |             |
| -          | anufacturing Orientation                          | 0       | 301 S. Grove      | Wichita, KS 67211                                                  |             |
|            | dustrial Safety Procedures                        | 1       | 316.677.9400      | Get maps at watc.edu/campuses                                      |             |
|            | anufacturing Overview                             | 1       |                   |                                                                    |             |
|            | rafting for Industrial Maintenance                | 1       |                   | Costs*                                                             |             |
|            | irect & Alternating Current                       | 4       | Tuition           | \$7,935.00                                                         |             |
|            | dustrial Wiring                                   | 2       | Fees              | \$1,918.00                                                         |             |
| IND 109B   | asic Industrial Programmable Logic Controls       | 3       | Lab Fees          | \$1,730.00                                                         |             |
| IND 110 D  | C & AC Motors                                     | 1       | TOTAL             | \$11,583.00                                                        |             |
| IND 112F   | undamentals of Motor Control                      | 2       | *Cost does not    | include online fees, books or tools.                               |             |
| IND 113S   | olid State & Digital Devices                      | 3       | Financial Assis   | tance may be available to those who quali                          | fy.         |
| IND 114 M  | agnetic Starters & Braking                        | 2       |                   |                                                                    |             |
| IND 116A   | dvanced Motor Controls                            | 3       |                   | Success Rate                                                       |             |
| IND 117 V  | ariable Speed Motor Controls                      | 2       |                   | ains the results of the one-year follow-up                         |             |
| IND 119 ln | dustrial Precision Alignment                      | 3       |                   | ed of 2013 Wichita Area Technical                                  |             |
| IND 121 M  | aintenance for Reliability                        | 3       |                   | condary program completers. WATC defin                             |             |
| IND 123 S  | dustrial Fluid Power & Pumping & Piping ystems    | 4       | military or are e | ose graduates who have found placement enrolled in advanced study. | •           |
|            | dustrial Computer Applications                    | 1       | • •               | tes contacted in follow-up study                                   | NA          |
| IND 130 ln | dustrial Mechanics                                | 3       | Placement rate    | )                                                                  | NA          |
| IND 131 ln | dustrial Programmable Logic Controls              | 3       |                   | <b>NA/</b>                                                         |             |
| IND 132 ln | dustrial Instrumentation                          | 3       |                   | Wages                                                              |             |
| ROB 100 ln | troduction to Robotics                            | 3       |                   | ce: Bureau of Labor Statistics (2012); Mea                         |             |
| Required   | General Education Courses                         |         | below wages.      | ation in Wichita, KS. WATC does not gua                            | rantee trie |
| ECO 105P   | rinciples of Macroeconomics                       | 3       | Annually          | Hourly                                                             |             |
| PHS 101 G  | eneral Physics I                                  | 5       | \$45,700          | \$21.97                                                            |             |
| ENG 101 C  | omposition I                                      | 3       | ψ 10,7 00         | Ψ21.01                                                             |             |
| MTH 112C   | ollege Algebra                                    | 3       |                   |                                                                    |             |
| SPH 101 P  | ublic Speaking                                    | 3       |                   |                                                                    |             |
| Total      |                                                   | 65      |                   |                                                                    |             |
| *Some cou  | rses may have a prerequisite in addition to the o | lasses  |                   |                                                                    |             |



Start Dates
August 2014 October 2014

January 2015 March 2015 June 2015 June 2015

WATC > Electromechanical Systems, TC

# Electromechanical Systems, TC

Curriculum

| CRN                              | Course Name                            | Credits |                 | Location                                                                             |          |
|----------------------------------|----------------------------------------|---------|-----------------|--------------------------------------------------------------------------------------|----------|
| Required Technica                | l Courses                              |         | Grove Campus    | 3                                                                                    |          |
| ORI 005 Manufacturi              | ng Orientation                         | 0       | 301 S. Grove    | Wichita, KS 67211                                                                    |          |
| IND 100 Industrial Sa            | afety Procedures                       | 1       | 316.677.94000   | Get maps at watc.edu/campuses                                                        |          |
| IND 104 Drafting for             | Industrial Maintenance                 | 1       |                 |                                                                                      |          |
| IND 106 Direct & Alte            | ernating Current                       | 4       |                 | Costs*                                                                               |          |
| IND 108 Industrial W             | 'iring                                 | 2       | Tuition         | \$6,481.00                                                                           |          |
| IND 109 Basic Indus              | trial Programmable Logic Controls      | 3       | Fees            | \$1,387.00                                                                           |          |
| IND 110 DC & AC M                | otors                                  | 1       | Lab Fees        | \$1,226.00                                                                           |          |
| IND 112 Fundament                | als of Motor Control                   | 2       | TOTAL           | \$9,094.00                                                                           |          |
| IND 113 Solid State              | & Digital Devices                      | 3       | *Cost does not  | include online fees, books or tools.                                                 |          |
| IND 114 Magnetic St              | arters & Braking                       | 2       | Financial Assis | tance may be available to those who qualify                                          | -        |
| IND 116 Advanced N               | Notor Controls                         | 3       |                 |                                                                                      |          |
| IND 117 Variable Sp              | eed Motor Controls                     | 2       |                 | Success Rate                                                                         |          |
| IND 119 Industrial Pr            | recision Alignment                     | 3       |                 | ains the results of the one-year follow-up                                           |          |
| IND 121 Maintenance              | e for Reliability                      | 3       |                 | ed of 2013 Wichita Area Technical                                                    |          |
| IND 123 Industrial FI<br>Systems | uid Power & Pumping & Piping           | 4       | success as the  | condary program completers. WATC define<br>ose graduates who have found placement in |          |
| IND 125 Industrial Co            | omputer Applications                   | 1       | •               | enrolled in advanced study.                                                          | NIA      |
| IND 130 Industrial Me            | echanics                               | 3       |                 | tes contacted in follow-up study                                                     | NA<br>NA |
| IND 131 Industrial Pr            | ogrammable Logic Controls              | 3       | Placement rate  | •                                                                                    | NA       |
| IND 132 Industrial Ins           | strumentation                          | 3       |                 | Moreo                                                                                |          |
| Required General                 | Education Courses                      |         | DI O D - 1 - 0  | Wages                                                                                | 14/      |
| MTH 101 Intermediate             | e Algebra                              | 3       |                 | rce: Bureau of Labor Statistics (2012); Mean                                         |          |
| Total                            |                                        | 47      | below wages.    | pation in Wichita, KS. WATC does not guara                                           | ince nie |
| *Some courses may                | have a prerequisite in addition to the | classes | bolow wages.    |                                                                                      |          |

<sup>\*</sup>Some courses may have a prerequisite in addition to the classes listed above. Please <u>contact an Academic Coach</u> for details. Visit <u>watc.edu/checklist</u> for program admission requirements.

Annually Hourly \$45,700 \$21.97



WATC > Engineering Design Technology, AAS

# Engineering Design Technology, AAS

# Curriculum

| Carrioaram                     |                    |      |
|--------------------------------|--------------------|------|
| CRN Course N                   | lame Cre           | dits |
| Required Technical Courses     |                    |      |
| ORI 005 Manufacturing Orienta  | ation (            | )    |
| AVC 112 Blueprint Reading      |                    | 2    |
| CAT 101 CATIA Part Design &    |                    | 4    |
| CAT 102 CATIA Drafting         |                    | 4    |
| CAT 105 CATIA Assembly Des     |                    | 4    |
| CAT 110 CATIA Wireframe & S    |                    | 4    |
| CAT 115 CATIA Prismatic Mac    |                    | 4    |
| MCD 101 Introduction to CAD I  |                    | 3    |
| MCD 102 Introduction to CAD II |                    | 2    |
| MCD 105 Technical Drafting I   |                    | 1    |
| MCD 110 Principles of Tool Des |                    | 2    |
| MCD 115 Machine Drafting & D   |                    | 3    |
| MCD 121 Descriptive Geometry   |                    | 3    |
| MCD 124 Advanced AutoCAD       |                    | 4    |
| PVD 105 Global Professional S  |                    | 2    |
| Electives (minimum of 4 cred   | it hours required) |      |
| CWG110 Welding Applications    |                    | 4    |
| CAT 120 CATIA ENOVIA LCA       |                    | 3    |
| CAT 124 CATIA Surface Machi    |                    | 3    |
| MCD 140 Drafting Technology I  | •                  | 4    |
| MCD 201 Geometric Dimension    | J                  | 3    |
| Required General Education     | Courses            |      |
| CED 115 Computer Application   |                    | 3    |
| PHS 120 General Physics I      | 5                  | 5    |
| OR                             |                    |      |
| PSH 110 Physical Science       |                    |      |
| PSY 101 General Psychology     | 3                  | 3    |
| OR                             |                    |      |
| SOC 101 Principles of Sociolog | Jy                 |      |
| ENG 101 Composition I          |                    | 3    |
| MTH 112 College Algebra        |                    | 3    |
| SPH 101 Public Speaking        | 3                  | 3    |
| OR                             |                    |      |
| SPH 111 Interpersonal Commu    | unication          |      |
| Total                          | 6                  | 6    |
|                                |                    |      |

<sup>\*</sup>Some courses may have a prerequisite in addition to the classes listed above. Please <u>contact an Academic Coach</u> for details. Visit <u>watc.edu/checklist</u> for program admission requirements.

### Start Dates

August 2014 October 2014 January 2015 March 2015 June 2015 June 2015

# Location

National Center for Aviation Training 4004 North Webb Road | Wichita, KS 67226 316.677.1500 Get maps at watc.edu/campuses

|          | Costs*      |  |
|----------|-------------|--|
| Tuition  | \$9,434.00  |  |
| Fees     | \$1,944.00  |  |
| Lab Fees | \$1,217.00  |  |
| TOTAL    | \$12,595.00 |  |
|          |             |  |

\*Cost does not include online fees, books or tools.

Financial Assistance may be available to those who qualify.

# Success Rate

This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical
College postsecondary program completers. WATC defines success as those graduates who have found placement in a job, the military or are enrolled in advanced study.

Eligible graduates contacted in follow-up study
10
Placement rate
80%

# Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$60,490 \$29.08



WATC > Engineering Design Technology, TC

# Engineering Design Technology, TC

# Curriculum

| o a i i i o a i a i i | •                     |         |
|-----------------------|-----------------------|---------|
| CRN C                 | Course Name           | Credits |
| Required Techni       | cal Courses           |         |
| ORI 005 Manufact      | turing Orientation    | 0       |
| AVC 112Blueprint      | Reading               | 2       |
| CAT 101 CATIA Pa      | art Design & Sketcher | 4       |
| CAT 102 CATIA D       | rafting               | 4       |
| CAT 105 CATIA As      | ssembly Design        | 4       |
| CAT 110 CATIA W       | 'ireframe & Surfaces  | 4       |
| MCD 101 Introducti    | ion to CAD I          | 3       |
| MCD 102 Introducti    | ion to CAD II         | 2       |
| MCD 105 Technica      | al Drafting I         | 1       |
| MCD 110 Principles    | s of Tool Design      | 2       |
| MCD 115 Machine       | Drafting & Design     | 3       |
| MCD 121 Descripti     | ve Geometry           | 3       |
| MCD 124 Advance       | d AutoCAD             | 4       |
| PVD 105 Global Pi     | rofessional Standards | 2       |
| Required Genera       | al Education Course   | S       |
| MTH 101 Intermed      | iate Algebra          | 3       |
| SPH 101 Public Sp     | peaking               | 3       |
|                       |                       |         |

OR

SPH 111 Interpersonal Communication
Total

\*Some courses may have a prerequisite in addition to the classes listed above. Please <u>contact an Academic Coach</u> for details. Visit <u>watc.edu/checklist</u> for program admission requirements.

#### Start Dates

August 2014 October 2014 January 2015 March 2015 June 2015 June 2015

# Location

National Center for Aviation Training 4004 North Webb Road | Wichita, KS 67226 316.677.1500 Get maps at watc.edu/campuses

# Costs\*

| Tuition  | \$6,800.00 |
|----------|------------|
| Fees     | \$1,295.00 |
| Lab Fees | \$959.00   |
| TOTAL    | \$9,054.00 |

\*Cost does not include online fees, books or tools.

Financial Assistance may be available to those who qualify.

# Success Rate

This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical

College postsecondary program completers. WATC defines

success as those graduates who have found placement in a job, the

military or are enrolled in advanced study.

Eligible graduates contacted in follow-up study 10 Placement rate 80%

## Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$60,490 \$29.08



WATC > AutoCAD, COC

# AutoCAD, COC

| CRN           | Course Name               | Credits |
|---------------|---------------------------|---------|
| Required Te   | echnical Courses          |         |
| ORI 005 Mar   | nufacturing Orientation   | 0       |
| MCD 101 Intro | oduction to CAD I         | 3       |
| MCD 102 Intro | oduction to CAD II        | 2       |
| MCD 124 Adv   | anced AutoCAD             | 4       |
| PVD 105 Glol  | bal Professional Standard | s 2     |
| Required Ge   | eneral Education Course   | es      |
| MTH 101 Inte  | rmediate Algebra          | 3       |
| Total         |                           | 14      |

<sup>\*</sup>Some courses may have a prerequisite in addition to the classes listed above. Please <u>contact an Academic Coach</u> for details. Visit <u>watc.edu/checklist</u> for program admission requirements.

### Start Dates

August 2014 October 2014 January 2015 March 2015 June 2015 June 2015

# Location

National Center for Aviation Training 4004 North Webb Road | Wichita, KS 67226 316.677.1500 Get maps at watc.edu/campuses

|          | Costs*     |  |
|----------|------------|--|
| Tuition  | \$1,602.00 |  |
| Fees     | \$413.00   |  |
| Lab Fees | \$182.00   |  |
| TOTAL    | \$2,197.00 |  |
|          |            |  |

<sup>\*</sup>Cost does not include online fees, books or tools. Financial Assistance may be available to those who qualify.

# Success Rate

This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical College postsecondary program completers. WATC defines success as those graduates who have found placement in a job, the military or are enrolled in advanced study.

Eligible graduates contacted in follow-up study 10 Placement rate 80%

# Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$60,490 \$29.08



WATC > CATIA Mechanical Engineering Design, COC

# CATIA Mechanical Engineering Design, COC

# Curriculum

| CRN        | Course Name                 | Credits |  |
|------------|-----------------------------|---------|--|
| Required T | echnical Courses            |         |  |
| ORI 005 Ma | nufacturing Orientation     | 0       |  |
| CAT 101 CA | TIA Part Design & Sketchei  | 4       |  |
| CAT 102 CA | TIA Drafting                | 4       |  |
| CAT 105 CA | TIA Assembly Design         | 4       |  |
| Total      |                             | 12      |  |
|            | ses may have a prerequisite |         |  |

<sup>\*</sup>Some courses may have a prerequisite in addition to the classes listed above. Please <u>contact an Academic Coach</u> for details. Visit watc.edu/checklist for program admission requirements.

#### Start Dates

August 2014 October 2014 January 2015 March 2015 June 2015 June 2015

# Location

National Center for Aviation Training 4004 North Webb Road | Wichita, KS 67226 316.677.1500 Get maps at watc.edu/campuses

|                        | Costs*                 |
|------------------------|------------------------|
| Tuition                | \$2,628.00             |
| Fees                   | \$354.00               |
| Lab Fees               | \$514.00               |
| TOTAL                  | \$3,496.00             |
| *Coot doos not include | anlina fasa baaka ar t |

<sup>\*</sup>Cost does not include online fees, books or tools. Financial Assistance may be available to those who qualify.

# Success Rate

This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical College postsecondary program completers. WATC defines success as those graduates who have found placement in a job, the military or are enrolled in advanced study. Eligible graduates contacted in follow-up study

10

Placement rate

80%

# Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$60,490 \$29.08



WATC > Interior Design, AAS

# Interior Design, AAS Curriculum

| CF                         |                                                   | Credits |
|----------------------------|---------------------------------------------------|---------|
| Required Technical Courses |                                                   |         |
| INT                        | 101 Interior Design Fundamentals                  | 2       |
| INT                        | 105 Blueprint Reading for Interior Design         | 2       |
| INT                        | 110 Color Theory                                  | 2       |
| INT                        | 126 Textiles                                      | 3       |
| INT                        |                                                   | 2       |
| INT                        |                                                   | 3       |
| INT                        |                                                   | 3       |
| INT                        |                                                   | 3       |
| INT                        | 165 Design Studio II                              | 2       |
| INT                        | 170 Business Practices & Portfolio Developmen     |         |
| INT                        |                                                   | 2       |
| INT                        | 190 Drafting for Interiors                        | 2       |
| INI                        | 192 Illustration for Interior Design              | 3       |
| INI                        | 193 Rendering for Interior Design                 | 3       |
|                            | 196 Interior Design Codes & Standards             | 3       |
|                            | 0 101 Introduction to CAD I                       | 3       |
| _                          | 0 102 Introduction to CAD II                      | 2       |
|                            | etives (minimum of 4 credit hours required)       |         |
|                            | 100 Accessories                                   | 1       |
| INI                        | 131 Faux & Decorative Painting                    | 4       |
|                            | 185 Mentorship                                    | 1       |
|                            | 201 Floral Design                                 | 4       |
|                            | 216 Kitchen Design                                | 3       |
|                            | 217 Bath Design                                   | 3       |
|                            | 235 Computer Technologies for Kitchen & Bath      | 3<br>3  |
|                            | 0 132 Basic Chief Architect/Architectural Desktop | 3       |
|                            | uired General Education Courses                   | 0       |
|                            | 115 Computer Applications                         | 3<br>3  |
| ARI                        | 100 Art Appreciation                              | 3       |
| ше                         | OR<br>130World History I                          |         |
|                            | 101 General Psychology                            | 3       |
|                            | 6 101 Composition I                               | 3       |
|                            | l 112 College Algebra                             | 3       |
|                            | 112 College Algebra<br>  101 Public Speaking      | 3       |
| Tota                       | . •                                               | 65      |
| 1016                       | u .                                               | 00      |

Start Dates

August 2014 October 2014 January 2015 March 2015 June 2015 June 2015

# Location

Southside Center

4501 E. 47th Street South, Wichita, KS 67210 316.677.1500 Get maps at watc.edu/campuses

|          | Costs*     |  |
|----------|------------|--|
| Tuition  | \$5,503.00 |  |
| Fees     | \$1,918.00 |  |
| Lab Fees | \$822.00   |  |
| TOTAL    | \$8,243.00 |  |
| TOTAL    | \$8,243.00 |  |

\*Cost does not include online fees, books or tools.

Financial Assistance may be available to those who qualify.

# Success Rate

This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical College postsecondary program completers. WATC defines success as those graduates who have found placement in a job, the military or are enrolled in advanced study.

Eligible graduates contacted in follow-up study

8

Placement rate

88%

# Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$47,200 \$22.69

<sup>\*</sup>Some courses may have a prerequisite in addition to the classes listed above. Please <u>contact an Academic Coach</u> for details. Visit <u>watc.edu/checklist</u> for program admission requirements.



WATC > Kitchen & Bath Design, TC

# Kitchen & Bath Design, TC

| CF                                 | RN Course Name                                 | Credits |
|------------------------------------|------------------------------------------------|---------|
| Required Technical Courses         |                                                |         |
| INT                                | 101 Interior Design Fundamentals               | 2       |
| INT                                | 105 Blueprint Reading for Interior Design      | 2       |
| INT                                | 110 Color Theory                               | 2       |
| INT                                | 127 Materials for Interior Environments        | 2       |
| INT                                | 155 Lighting Technologies                      | 3       |
| INT                                | 170 Business Practices & Portfolio Development | 3       |
| INT                                | 190 Drafting for Interiors                     | 2       |
| INT                                | 192 Illustration for Interior Design           | 3       |
| INT                                | 193 Rendering for Interior Design              | 3       |
| INT                                | 216 Kitchen Design                             | 3       |
|                                    | 217 Bath Design                                | 3       |
| INT                                | 235 Computer Technologies for Kitchen & Bath   | 3       |
| MCE                                | 0 101 Introduction to CAD I                    | 3       |
| MCE                                | 0 102 Introduction to CAD II                   | 2       |
| PDV                                | 101 Global Professional Standards              | 2       |
| Required General Education Courses |                                                |         |
| MTH                                | 101 Intermediate Algebra                       | 3       |
| SPH                                | 101 Public Speaking                            | 3       |
| Tota                               | ıl                                             | 44      |

<sup>\*</sup>Some courses may have a prerequisite in addition to the classes listed above. Please <u>contact an Academic Coach</u> for details. Visit watc.edu/checklist for program admission requirements.

#### Start Dates

August 2014 October 2014 January 2015 March 2015 June 2015 June 2015

### Location

Southside Center

4501 E. 47th Street South, Wichita, KS 67210 316.677.1500 Get maps at watc.edu/campuses

|          | Costs*     |  |
|----------|------------|--|
| Tuition  | \$3,916.00 |  |
| Fees     | \$1,298.00 |  |
| Lab Fees | \$361.00   |  |
| TOTAL    | \$5,575.00 |  |
|          |            |  |

\*Cost does not include online fees, books or tools.

Financial Assistance may be available to those who qualify.

# Success Rate

This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical College postsecondary program completers. WATC defines success as those graduates who have found placement in a job, the military or are enrolled in advanced study.

Eligible graduates contacted in follow-up study

8

Placement rate

88%

# Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$47,200 \$22.69



WATC > Faux & Decorative Painting, COC

# Faux & Decorative Painting, COC

# Curriculum

CRN Course Name Credits

Required Technical Courses
INT 131 Faux & Decorative Painting

INT 131 Faux & Decorative Painting 4
Total 4

\*Some courses may have a prerequisite in addition to the classes listed above. Please <u>contact an Academic Coach</u> for details. Visit <u>watc.edu/checklist</u> for program admission requirements.

Start Dates

August 2014 October 2014 January 2015 March 2015 June 2015 June 2015

### Location

Southside Center

4501 E. 47th Street South, Wichita, KS 67210 316.677.1500 Get maps at watc.edu/campuses

Costs\* \$348.00 \$118.00 \$434.00

Lab Fees \$434.00 TOTAL \$900.00 \*Cost does not include online fees, books or tools.

Financial Assistance may be available to those who qualify.

### Success Rate

**Tuition** 

Fees

This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical College postsecondary program completers. WATC defines success as those graduates who have found placement in a job, the military or are enrolled in advanced study. Eligible graduates contacted in follow-up study

NA

Placement rate

NA

Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly NA NA



WATC > Floral Design, COC

# Floral Design, COC

# Curriculum

CRN Course Name Credits Required Technical Courses INT 201 Floral Design 4 Total 4

\*Some courses may have a prerequisite in addition to the classes listed above. Please <u>contact an Academic Coach</u> for details. Visit <u>watc.edu/checklist</u> for program admission requirements.

### Start Dates

August 2014 October 2014 January 2015 March 2015 June 2015 June 2015

### Location

Southside Center

4501 E. 47th Street South, Wichita, KS 67210 316.677.1500 Get maps at watc.edu/campuses

|                          | Costs*                      |
|--------------------------|-----------------------------|
| Tuition                  | \$348.00                    |
| Fees                     | \$118.00                    |
| Lab Fees                 | \$592.00                    |
| TOTAL                    | \$1,058.00                  |
| *Cost does not include o | nline fees, books or tools. |

Financial Assistance may be available to those who qualify.

# Success Rate

This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical College postsecondary program completers. WATC defines success as those graduates who have found placement in a job, the military or are enrolled in advanced study. Eligible graduates contacted in follow-up study

NA

Placement rate

NA

# Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$22,910 \$11.01



Start Dates
August 2014 January 2015

August 2015

WATC > IT Essentials, COC

# IT Essentials, COC

# Curriculum

| CRN         | Course Name                 | Credits                           | Grove                  |                              |
|-------------|-----------------------------|-----------------------------------|------------------------|------------------------------|
| Required    | Technical Courses           |                                   | 301 S. Grove   Wichit  | ta, KS 67211                 |
| INF 105 A+  | Certification - Essential   | s 3                               | 316.677.9400 Get ma    | aps at watc.edu/campuses     |
| INF 110 A+  | Certification - Application | n 3                               |                        |                              |
| INF 115 Net | work + Part I               | 3                                 |                        | Costs*                       |
| INF 116 Net | work + Part II              | 3                                 | Tuition                | \$945.00                     |
| INF 120 Sec | curity +                    | 3                                 | Fees                   | \$443.00                     |
| Total       | •                           | 15                                | TOTAL                  | \$1,388.00                   |
| *Como oou   | reac may have a prorea      | uicita in addition to the alacces | *Cost does not include | de online fees hooks or took |

<sup>\*</sup>Some courses may have a prerequisite in addition to the classes listed above. Please <u>contact an Academic Coach</u> for details. Visit <u>watc.edu/checklist</u> for program admission requirements.

Location

# Success Rate

This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical College postsecondary program completers. WATC defines success as those graduates who have found placement in a job, the military or are enrolled in advanced study. Eligible graduates contacted in follow-up study

NA

Placement rate

NA

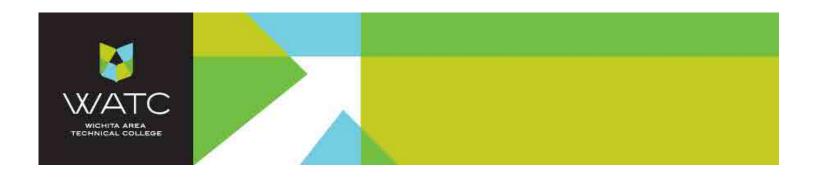
# Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$63,610 \$30.58

<sup>\*</sup>Cost does not include online fees, books or tools.

Financial Assistance may be available to those who qualify.



WATC > Machining Technology, AAS

# Machining Technology, AAS Curriculum

| CRN          | Course Name                | Credits         |
|--------------|----------------------------|-----------------|
| Required To  | echnical Courses           |                 |
| ORI 005 Mai  | nufacturing Orientation    | 0               |
| AVC 110 Saf  | fety/OSHA 10               | 1               |
| AVC 112Blu   | eprint Reading             | 2               |
| CAT 101 CA   | TIA Part Design & Sketch   | ner 4           |
| CAT 105 CA   | TIA Assembly Design        | 4               |
| CAT 115CA    | TIA Prismatic Machining    | 4               |
| MMG 101 Mag  | chining Blueprint          | 1               |
| MMG115 Mad   | chining I                  | 3               |
| MMG116Qu     | ality Control & Inspection | 1               |
| MMG 126 Mag  | chining II                 | 3               |
| MMG 130 Ber  | nch Work                   | 1               |
| MMG 131 Met  | tallurgy                   | 1               |
|              | chine Tool Processes       | 1               |
| MMG 155 CN   | C Lathes                   | 3               |
| MMG 156 CN   | C Operations               | 3               |
| MMG 160 CN   | C Milling I                | 3               |
|              | anced NC Programming       |                 |
| PVD 105 Glo  | bal Professional Standar   | ds <sub>2</sub> |
| Required G   | eneral Education Cour      | ses             |
| CED 115 Co   | mputer Applications        | 3               |
| ENG 101 Co   | mposition I                | 3<br>3          |
| MTH 112Col   | llege Algebra              |                 |
| SPH 101 Pul  | olic Speaking              | 3               |
| OR           | 2                          |                 |
| SPH 111 Inte | erpersonal Communicatio    | n               |
| PSY 101 Ger  | neral Psychology           | 3               |
| OR           |                            |                 |
| SOC 101 Prin | nciples of Sociology       |                 |
| Total        | •                          | 62              |

<sup>\*</sup>Some courses may have a prerequisite in addition to the classes listed above. Please <u>contact an Academic Coach</u> for details. Visit <u>watc.edu/checklist</u> for program admission requirements.

### Start Dates

August 2014 October 2014 January 2015 March 2015 June 2015 June 2015

# Location

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

|          | Costs*      |
|----------|-------------|
| Tuition  | \$8,316.00  |
| Fees     | \$1,829.00  |
| Lab Fees | \$3,161.00  |
| TOTAL    | \$13,306.00 |

\*Cost does not include online fees, books or tools.

Financial Assistance may be available to those who qualify.

# Success Rate

This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical
College postsecondary program completers. WATC defines success as those graduates who have found placement in a job, the military or are enrolled in advanced study.

Eligible graduates contacted in follow-up study

8
Placement rate

88%

# Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$41,700 \$20.05



WATC > Machining Technology, TC

# Machining Technology, TC Curriculum

| CRN          | Course Name                | Credits |
|--------------|----------------------------|---------|
| Required Te  | echnical Courses           |         |
| ORI 005 Mar  | nufacturing Orientation    | 0       |
| AVC 110 Safe | ety/OSHA 10                | 1       |
| AVC 112Blue  | eprint Reading             | 2       |
| CAT 101 CAT  | TIA Part Design & Sketcher | 4       |
| CAT 105 CAT  | TIA Assembly Design        | 4       |
| CAT 115CA    | TIA Prismatic Machining    | 4       |
| MMG 101 Mad  | chining Blueprint          | 1       |
| MMG 115 Mad  | •                          | 3       |
| MMG 116 Qua  | ality Control & Inspection | 1       |
| MMG 126 Mad  | chining II                 | 3       |
| MMG 130 Ber  | nch Work                   | 1       |
| MMG 131 Met  | allurgy                    | 1       |
| MMG 132 Mad  | chine Tool Processes       | 1       |
| MMG 155 CN   | C Lathes                   | 3       |
| MMG 156 CN   | C Operations               | 3       |
| MMG 160 CN   | C Milling I                | 3       |
| MMG 165 Adv  | ranced NC Programming      | 3       |
| PVD 105 Glo  | bal Professional Standards | 2       |
| Required Go  | eneral Education Course    | s       |
| MTH 020 Mat  | h Fundamentals             | 3       |
| Total        |                            | 43      |

\*Some courses may have a prerequisite in addition to the classes listed above. Please <u>contact an Academic Coach</u> for details. Visit <u>watc.edu/checklist</u> for program admission requirements.

### Start Dates

August 2014 October 2014 January 2015 March 2015 June 2015 June 2015

# Location

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

|          | Costs*      |
|----------|-------------|
| Tuition  | \$6,559.00  |
| Fees     | \$1,269.00  |
| Lab Fees | \$3,161.00  |
| TOTAL    | \$10,989.00 |
|          |             |

<sup>\*</sup>Cost does not include online fees, books or tools.

Financial Assistance may be available to those who qualify.

# Success Rate

This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical
College postsecondary program completers. WATC defines success as those graduates who have found placement in a job, the military or are enrolled in advanced study.

Eligible graduates contacted in follow-up study

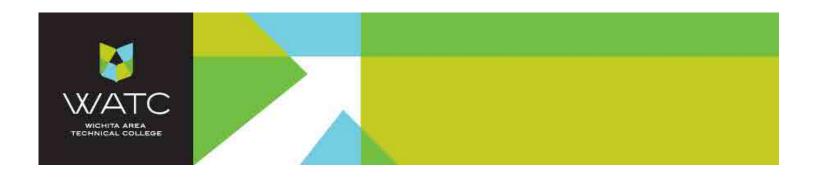
8
Placement rate

88%

# Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$41,700 \$20.05



WATC > Manual Machining, TC

# Manual Machining, TC

# Curriculum

| CRN             | Course Name            | Credits |
|-----------------|------------------------|---------|
| Required Tech   | nical Courses          |         |
| ORI 005 Manufa  | acturing Orientation   | 0       |
| AVC 110 Safety/ | OSHA 10                | 1       |
| AVC 112Bluepri  | nt Reading             | 2       |
| CAT 101 CATIA   | Part Design & Sketcher | 4       |
| CAT 105 CATIA   | Assembly Design        | 4       |
| CAT 115 CATIA   | Prismatic Machining    | 4       |
| MMG 101 Machin  | ing Blueprint          | 1       |
| MMG 115 Machin  | ing I                  | 3       |
| MMG 116 Quality | Control & Inspection   | 1       |
| MMG 126 Machin  | ing II                 | 3       |
| MMG 130 Bench   | Work                   | 1       |
| MMG 131 Metallu | rgy                    | 1       |
| MMG 132 Machin  | e Tool Processes       | 1       |
| MMG 156 CNC C   | perations              | 3       |
| PVD 105 Global  | Professional Standards | 2       |
| Required Gene   | eral Education Course  | S       |
| MTH 020 Math F  | undamentals            | 3       |
| Total           |                        | 22      |

<sup>\*</sup>Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Coach for details. Visit watc.edu/checklist for program admission requirements.

#### Start Dates

August 2014 October 2014 January 2015 March 2015 June 2015 June 2015

# Location

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

# Costs\*

| Tuition  | \$2,644.00 |
|----------|------------|
| Fees     | \$649.00   |
| Lab Fees | \$1,865.00 |
| TOTAL    | \$5,158.00 |
| **       |            |

<sup>\*</sup>Cost does not include online fees, books or tools.

Financial Assistance may be available to those who qualify.

# Success Rate

This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical

College postsecondary program completers. WATC defines

success as those graduates who have found placement in a job, the military or are enrolled in advanced study.

Eligible graduates contacted in follow-up study 8 Placement rate 88%

# Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$33,100 \$15.91



WATC > CATIA Machining, COC

# CATIA Machining, COC

# Curriculum

| CRN        | Course Name                | Credits               |    |
|------------|----------------------------|-----------------------|----|
| Required 7 | Technical Courses          |                       |    |
| AVC 110 Sa | fety/OSHA 10               | 1                     |    |
| CAT 101 CA | TIA Part Design & Sketche  | er 4                  |    |
| CAT 105 CA | TIA Assembly Design        | 4                     |    |
| CAT 115 CA | TIA Prismatic Machining    | 4                     |    |
| Total      |                            | 13                    |    |
| *Some cour | rece may have a proroquiei | te in addition to the | ٠. |

Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Coach for details. Visit watc.edu/checklist for program admission requirements.

#### Start Dates

August 2014 October 2014 January 2015 March 2015 June 2015 June 2015

# Location

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

| Costs*     |  |
|------------|--|
| \$2,737.00 |  |
| \$384.00   |  |
| \$710.00   |  |
| \$3,831.00 |  |
|            |  |

<sup>\*</sup>Cost does not include online fees, books or tools.

Financial Assistance may be available to those who qualify.

# Success Rate

This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical College postsecondary program completers. WATC defines success as those graduates who have found placement in a job, the military or are enrolled in advanced study. Eligible graduates contacted in follow-up study Placement rate 88%

# Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$33,100 \$15.91



WATC > CNC Operator, TC

# CNC Operator, TC

| CRN             | Course Name            | Credits |
|-----------------|------------------------|---------|
| Required Tech   | nical Courses          |         |
| ORI 005 Manufa  | cturing Orientation    | 0       |
| AVC 110 Safety/ | OSHA 10                | 1       |
| AVC 112Bluepri  | nt Reading             | 2       |
| MMG 101 Machin  | ing Blueprint          | 1       |
| MMG 116 Quality | Control & Inspection   | 1       |
| MMG 131 Metallu | rgy                    | 1       |
| MMG 155 CNC La  | athes                  | 3       |
| MMG 156 CNC O   | perations              | 3       |
| MMG 160 CNC IV  | filling I              | 3       |
| PVD 105 Global  | Professional Standards | 3 2     |
| Required Gene   | eral Education Course  | es      |
| MTH 020 Math Fi | undamentals            | 3       |
| Total           |                        | 20      |

<sup>\*</sup>Some courses may have a prerequisite in addition to the classes listed above. Please <u>contact an Academic Coach</u> for details. Visit <u>watc.edu/checklist</u> for program admission requirements.

Start Dates

August 2014 October 2014 January 2015 March 2015 June 2015 June 2015

# Location

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

|                                                   | Costs*     |
|---------------------------------------------------|------------|
| Tuition                                           | \$2,358.00 |
| Fees                                              | \$590.00   |
| Lab Fees                                          | \$1,346.00 |
| TOTAL                                             | \$4,294.00 |
| Cost does not include online fees, books or tools |            |

Financial Assistance may be available to those who qualify.

# Success Rate

This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical College postsecondary program completers. WATC defines success as those graduates who have found placement in a job, the military or are enrolled in advanced study.

Eligible graduates contacted in follow-up study 8
Placement rate 88%

# Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$37,060 \$17.82



WATC > Medical Assisting, AAS

# Medical Assisting, AAS

# Curriculum

Total

| CRN           | Course Name                                   | Credits | L                    | ocation                                                                 |
|---------------|-----------------------------------------------|---------|----------------------|-------------------------------------------------------------------------|
| Required Te   | chnical Courses                               |         | Southside Center     |                                                                         |
| ALH 130 Eme   | ergency Preparedness for Health Professionals | 3 1     | 4501 E. 47th Street  | South   Wichita, KS 67210                                               |
|               | ases, Disorders, & Diagnostic Procedures      | 2       | 316.677.1500 Get m   | aps at watc.edu/campuses                                                |
| ALH 155 Phar  | ramacology for Allied Health                  | 3       |                      |                                                                         |
| EMP 105 Care  | eer Strategies                                | 1       |                      | Costs*                                                                  |
| MEA 101 Profe | essional Issues                               | 2       | Tuition              | \$5,472.00                                                              |
| MEA 111 Patie | ent Care I                                    | 5       | Fees                 | \$1,829.00                                                              |
| MEA 113 Medi  | ical Administrative Aspects                   | 4       | Lab Fees             | \$1,913.00                                                              |
| MEA 115 Insu  | rance Billing & Coding                        | 3       | TOTAL                | \$9,214.00                                                              |
| MEA 116 Phar  | ramacology Medication Administration          | 2       |                      | ide online fees, books or tools.                                        |
| MEA 121 Patie | ent Care II                                   | 4       | Financial Assistance | e may be available to those who quali                                   |
| MEA 125 Clini | cal Laboratory Procedures                     | 4       |                      |                                                                         |
| MEA 131 Medi  | ical Assistant Practicum                      | 6       |                      | Success Rate                                                            |
| MEA 210 Adva  | anced Procedures in Medical Assisting         | 4       |                      | the results of the one-year follow-up                                   |
| •             | neral Education Courses                       |         |                      | 2013 Wichita Area Technical                                             |
| ALH 101 Medi  | ical Terminology                              | 3       |                      | ary program completers. WATC defir<br>raduates who have found placement |
|               | an Anatomy & Physiology                       | 5       |                      | ed in advanced study.                                                   |
| CED 115 Com   | puter Applications                            | 3       | •                    | ontacted in follow-up study                                             |
| CPR 001 CPR   | R for Healthcare Providers                    | 1       | Placement rate       | onacted in teller up etady                                              |
| ENG 101 Com   | •                                             | 3       | T Idoomone rato      |                                                                         |
| MTH 112 Colle | -                                             | 3       |                      | Wages                                                                   |
| SPH 101 Publ  | ic Speaking                                   | 3       | BLS Data Source: B   | Bureau of Labor Statistics (2012); Mea                                  |
| OR            |                                               |         |                      | in Wichita, KS. WATC does not gua                                       |
| SPH 111 Inter | personal Communication                        |         | helow wages          | ,                                                                       |

\*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Coach for details. Visit watc.edu/checklist for program admission requirements.

Start Dates

August 2014 October 2014 January 2015 March 2015 June 2015 June 2015

fines

nt in a job, the

20 100%

ean Wages of arantee the below wages.

Annually Hourly \$25,950 \$12.48



WATC > Medical Assistant, TC

# Medical Assistant, TC

# Curriculum

| CRN                   | Course Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Credits |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Required Technical    | Courses                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |
| ALH 130 Emergency F   | Preparedness for Health Professionals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1       |
| ALH 131 Diseases, Di  | sorders, & Diagnostic Procedures                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2       |
| ALH 155 Pharamacolo   | ogy for Allied Health                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3       |
| EMP 105 Career Strate | egies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1       |
| MEA 101 Professional  | Issues                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2       |
| MEA 111 Patient Care  | I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 5       |
| MEA 113 Medical Adm   | inistrative Aspects                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 4       |
| MEA 115 Insurance Bil | ling & Coding                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 3       |
| MEA 116 Pharamacolo   | ngy Medication Administration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2       |
| MEA 121 Patient Care  | II                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 4       |
| MEA 125 Clinical Labo | ratory Procedures                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 4       |
| MEA 131 Medical Assis | stant Practicum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6       |
| Required General Ed   | ducation Courses                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |
| ALH 101 Medical Term  | ninology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3       |
| BIO 150 Human Anato   | omy & Physiology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 5       |
| CED 115 Computer Ap   | pplications                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3       |
| CPR 001 CPR for Hea   | Ithcare Providers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1       |
| Total                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 49      |
| *O                    | and a supplied to the state of |         |

<sup>\*</sup>Some courses may have a prerequisite in addition to the classes listed above. Please <u>contact an Academic Coach</u> for details. Visit <u>watc.edu/checklist</u> for program admission requirements.

#### Start Dates

August 2014 October 2014 January 2015 March 2015 June 2015 June 2015

# Location

Southside Center

4501 E. 47th Street South | Wichita, KS 67210 316.677.1500 Get maps at watc.edu/campuses

|                           | Costs*              |
|---------------------------|---------------------|
| Tuition                   | \$4,473.00          |
| Fees                      | \$1,446.00          |
| Lab Fees                  | \$1,779.00          |
| TOTAL                     | \$7,698             |
| *Cost does not include or | nline fees hooks or |

\*Cost does not include online fees, books or

tools. Financial Assistance may be available to those who qualify.

# Success Rate

This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical College postsecondary program completers. WATC defines success as those graduates who have found placement in a job, the military or are enrolled in advanced study.

Eligible graduates contacted in follow-up study 20 Placement rate 100%

# Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$25,950 \$12.48



WATC > Medical Coding, AAS

# Medical Coding, AAS Curriculum

| CRN Course Name                                        | Credite |
|--------------------------------------------------------|---------|
| Required Technical Courses                             |         |
| MEC 110 Legal and Ethical Issues in Healthcare         | 3       |
| MEC 115 Pathophysiology                                | 3       |
| MEC 120 International Classification of Disease Coding | 4       |
| MEC 125 Introduction to Health Information             | 3       |
| MEC 130 Reimbursement Methodologies                    | 4       |
| MEC 135 Healthcare Coding Practicum                    | 3       |
| MEC 140 Current Procedural Terminology Coding          | 3       |
| PVD 105 Global Professional Standards                  | 2       |
| Required General Education Courses                     |         |
| ACC 105 Fundamentals of Accounting                     | 3       |
| ALH 101 Medical Terminology                            | 3       |
| ALH 115Pharmacology                                    | 3       |
| ALH 105 First Aid & CPR                                | 3       |
| BIO 150 Human Anatomy & Physiology                     | 5       |
| CED 115 Computer Applications                          | 3       |
| ENG 101 Composition I                                  | 3       |
| ENG 120 Composition II                                 | 3       |
| MTH 112 College Algebra                                | 3       |
| SOC 101 Principles of Sociology                        | 3       |
| OR                                                     |         |
| PSY 101 General Psychology                             |         |
| SPH 101 Public Speaking                                | 3       |
| OR                                                     |         |
| SPH 111 Interpersonal Communication                    |         |
| Total                                                  | 60      |
|                                                        |         |

<sup>\*</sup>Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Coach for details. Visit watc.edu/checklist for program admission requirements.

Start Dates

August 2014 October 2014 January 2015 March 2015 June 2015 June 2015

### Location

Southside Center

4501 E. 47th Street South | Wichita, KS 67210 316.677.1500 Get maps at watc.edu/campuses

|                          | Costs*               |  |
|--------------------------|----------------------|--|
| Tuition                  | \$3,803.00           |  |
| Fees                     | \$1,770.00           |  |
| Lab Fees                 | \$91.00              |  |
| TOTAL                    | \$5,664.00           |  |
| *Cost does not include o | nline fees, books or |  |

tools. Financial Assistance may be available to those who qualify.

# Success Rate

This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical
College postsecondary program completers. WATC defines success as those graduates who have found placement in a job, the military or are enrolled in advanced study.

Eligible graduates contacted in follow-up study

20
Placement rate

100%

# Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$25,950 \$12.48



WATC > Medical Coding, TC

# Medical Coding, TC

| CRN           | Course Name                                 | Credits   |
|---------------|---------------------------------------------|-----------|
| Required Te   | chnical Courses                             |           |
| MEC 110 Lega  | al and Ethical Issues in Healthcare         | 3         |
| MEC 115 Path  | nophysiology                                | 3         |
| MEC 120 Inter | national Classification of Disease Coding   | 4         |
| MEC 125 Intro | duction to Health Information               | 3         |
| MEC 130 Rein  | nbursement Methodologies                    | 4         |
| MEC 135 Heal  | thcare Coding Practicum                     | 3         |
| MEC 140 Curr  | ent Procedural Terminology Coding           | 3         |
| Required Ge   | eneral Education Courses                    |           |
| ALH 101 Med   | ical Terminology                            | 3         |
| ALH 115 Phai  | rmacology                                   | 3         |
| BIO 150 Hum   | nan Anatomy & Physiology                    | 5         |
| CED 115 Com   | nputer Applications                         | 3         |
| Total         |                                             | 37        |
| *Como course  | oc may have a prorequipite in addition to t | ha alassa |

<sup>\*</sup>Some courses may have a prerequisite in addition to the classes listed above. Please <u>contact an Academic Coach</u> for details. Visit <u>watc.edu/checklist</u> for program admission requirements.

#### Start Dates

August 2014 October 2014 January 2015 March 2015 June 2015 June 2015

# Location

Southside Center

4501 E. 47th Street South | Wichita, KS 67210 316.677.1500 Get maps at watc.edu/campuses

|                                                  | Cosis                                                            |
|--------------------------------------------------|------------------------------------------------------------------|
| Tuition                                          | \$2,354.00                                                       |
| Fees                                             | \$1,092.00                                                       |
| Lab Fees                                         | \$56.00                                                          |
| TOTAL                                            | \$3,502.00                                                       |
| *Cost does not include tools. Financial Assistar | online fees, books or nce may be available to those who qualify. |

# Success Rate

This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical College postsecondary program completers. WATC defines success as those graduates who have found placement in a job, the military or are enrolled in advanced study.

Eligible graduates contacted in follow-up study 20 Placement rate 100%

# Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$25,950 \$12.48



Start Dates
August 2014 October 2014

January 2015 March 2015

June 2015

June 2015

WATC > Medical Coding, COC

## Medical Coding, COC Curriculum

Location CRN Course Name Credits Southside Center Required Technical Courses MEC 101 Insurance Billing & Coding for the Physicians 4501 E. 47th Street South | Wichita, KS 67210 316.677.1500 Get maps at watc.edu/campuses Office Required General Education Courses ALH 101 Medical Terminology 3 Costs\* **Tuition** \$759.00 BIO 100 Biology Review 1 BIO 150 Human Anatomy & Physiology 5 Fees \$345.00 Lab Fees \$50.00 Total \*Some courses may have a prerequisite in addition to the classes TOTAL \$1,154.00 listed above. Please contact an Academic Coach for details. \*Cost does not include online fees, books or Visit watc.edu/checklist for program admission requirements. tools. Financial Assistance may be available to those who qualify.

#### Success Rate

This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical College postsecondary program completers. WATC defines success as those graduates who have found placement in a job, the military or are enrolled in advanced study. Eligible graduates contacted in follow-up study

20

Placement rate

100%

#### Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$25,950 \$12.48



WATC > Nondestructive Testing, AAS

## Nondestructive Testing, AAS Curriculum

| CRN         | Course Name                                   | Credit                                         |
|-------------|-----------------------------------------------|------------------------------------------------|
| Required T  | echnical Courses                              |                                                |
| AVC 110 Sa  | afety/OSHA 10                                 | 1                                              |
| CFT 101 Int | roduction to Composites                       | 2                                              |
| NDT 100 Pe  | enetrant Inspection                           | 2                                              |
| NDT 101 Ma  | agnetic Particle Testing Method for NDT       | 2<br>3<br>3                                    |
| NDT 10245   | Hour Radiation Safety                         |                                                |
| NDT 103Ra   | adiographic Testing Method II                 | 3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>2<br>2 |
|             | omputed Radiographic Imaging                  | 3                                              |
| NDT 110 Ed  | ldy Current Level I                           | 3                                              |
|             | ldy Current Level II                          | 3                                              |
|             | rasonic Testing Method Level I                | 3                                              |
|             | rasonic Testing Method Level II               | 3                                              |
|             | sual Inspection                               | 3                                              |
|             | roduction to Ultrasonic C-Scan & Phased Array | / 3                                            |
|             | and Testing for NDT                           | 2                                              |
|             | rasonic Phased Array II                       | 2                                              |
|             | nased Array Time of Flight Diffraction (TOFD) | 2                                              |
|             | obal Professional Standards                   | 2                                              |
| •           | General Education Courses                     |                                                |
|             | omputer Applications                          | 3                                              |
| ENG 101 Co  | •                                             | 3                                              |
|             | nysical Science                               | 5                                              |
|             | ollege Algebra                                | 3                                              |
|             | eneral Psychology                             | 3                                              |
| OF          | •                                             |                                                |
|             | inciples of Sociology                         |                                                |
|             | erpersonal Communication                      | 3                                              |
| IO.         |                                               |                                                |
|             | ıblic Speaking                                |                                                |
| Total       |                                               | 63                                             |

\*Some courses may have a prerequisite in addition to the classes listed above. Please <u>contact an Academic Coach</u> for details. Visit <u>watc.edu/checklist</u> for program admission requirements.

Start Dates August 2014 August 2015

#### Location

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

| Costs*      |  |
|-------------|--|
| \$7,197.00  |  |
| \$1,682.00  |  |
| \$1,408.00  |  |
| \$10,287.00 |  |
|             |  |

<sup>\*</sup>Cost does not include online fees, books or tools.

Financial Assistance may be available to those who qualify.

#### Success Rate

This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical College postsecondary program completers. WATC defines success as those graduates who have found placement in a job, the military or are enrolled in advanced study.

Eligible graduates contacted in follow-up study

NA

Placement rate

#### Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$82,070 \$39.46



WATC > Nondestructive Testing, TC

## Nondestructive Testing, TC

| CRN                       | Course Name                     | Credi |
|---------------------------|---------------------------------|-------|
| Required Technical Co.    | ırses                           |       |
| AVC 110 Safety/OSHA 10    |                                 | 1     |
| CFT 101 Introduction to C | omposites                       | 2     |
| MTH 020 Math Fundamen     | tals                            | 3     |
| NDT 100 Penetrant Inspec  | ction                           | 2     |
| NDT 101 Magnetic Particle | e Testing Method for NDT        | 3     |
| NDT 10245 Hour Radiation  | n Safety                        | 3     |
| NDT 103 Radiographic Te   | sting Method II                 | 3     |
| NDT 105 Computed Radio    | ographic Imaging                | 3     |
| NDT 110 Eddy Current Le   | vel I                           | 3     |
| NDT 111 Eddy Current Le   | vel II                          | 3     |
| NDT 112 Ultrasonic Testir | ng Method Level I               | 3     |
| NDT 113 Ultrasonic Testir | ng Method Level II              | 3     |
| NDT 114 Visual Inspection |                                 | 3     |
| NDT 115 Introduction to U | Itrasonic C-Scan & Phased Array |       |
| NDT 116 Bond Testing for  | NDT                             | 2     |
| NDT 120 Ultrasonic Phase  | -                               | 2     |
| NDT 125 Phased Array Ti   | me of Flight Diffraction (TOFD) | 2     |
| PVD 105 Global Profession | nal Standards                   | 2     |
| Required General Educ     | ation Courses                   |       |
| CED 101 Computer Essei    | ntials                          | 2     |
| Total                     |                                 | 48    |

<sup>\*</sup>Some courses may have a prerequisite in addition to the classes listed above. Please <u>contact an Academic Coach</u> for details. Visit <u>watc.edu/checklist</u> for program admission requirements.

Start Dates August 2014 August 2015

#### Location

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

|          | Costs*      |
|----------|-------------|
| Tuition  | \$7,030.00  |
| Fees     | \$1,416.00  |
| Lab Fees | \$1,578.00  |
| TOTAL    | \$10,024.00 |

<sup>\*</sup>Cost does not include online fees, books or tools.

Financial Assistance may be available to those who qualify.

#### Success Rate

This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical College postsecondary program completers. WATC defines success as those graduates who have found placement in a job, the military or are enrolled in advanced study.

Eligible graduates contacted in follow-up study

Placement rate 67%

#### Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$82,070 \$39.46



WATC > Industrial Radiographer, COC

Start Dates August 2014 August 2015

### Industrial Radiographer, COC Curriculum

| Curriculum     |                                     |         | National Center for Aviation Training |                         |
|----------------|-------------------------------------|---------|---------------------------------------|-------------------------|
| CRN            | Course Name                         | Credits | 4004 N. Webb Road                     | Wichita, KS 67226       |
| Required Tech  | nical Courses                       |         | 316.677.9400 Get ma                   | ps at watc.edu/campuses |
| NDT 100 Penetr | ant Inspection                      | 2       |                                       |                         |
| NDT 101 Magne  | tic Particle Testing Method for NDT | 3       |                                       | Costs*                  |
| NDT 10245 Hou  | r Radiation Safety                  | 3       | Tuition                               | \$2,282.00              |

\$2,282.00 Fees \$413.00 3 NDT 103 Radiographic Testing Method II Lab Fees \$449.00 NDT 105 Computed Radiographic Imaging 3 **TOTAL** \$3.144.00 Total

\*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Coach for details. Visit watc.edu/checklist for program admission requirements.

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

Location

Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$82,070 \$39.46



WATC > Ultrasonic Technician, COC

Start Dates
August 2014 August 2015

## Ultrasonic Technician, COC Curriculum

#### Location

| Curriculur                                                                                                                                                                                              | n                          |                                                                                                                    | National Center for Av                     | viation Training  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-------------------|
| CRN                                                                                                                                                                                                     | Course Name                | Credits                                                                                                            | 4004 N. Webb Road                          | Wichita, KS 67226 |
| Required Techr                                                                                                                                                                                          | ical Courses               |                                                                                                                    | 316.677.9400 Get maps at watc.edu/campuses |                   |
| NDT 112 Ultrason                                                                                                                                                                                        | ic Testing Method Level I  | 3                                                                                                                  |                                            |                   |
| NDT 113 Ultrason                                                                                                                                                                                        | ic Testing Method Level II | 3                                                                                                                  |                                            | Costs*            |
| NDT 115 Introduction to Ultrasonic C-Scan & Phased Array 3                                                                                                                                              |                            | 3                                                                                                                  | Tuition                                    | \$2,119.00        |
| NDT 120 Ultrasonic Phased Array II 2                                                                                                                                                                    |                            | 2                                                                                                                  | Fees                                       | \$384.00          |
| NDT 125 Phased Array Time of Flight Diffraction (TOFD) 2                                                                                                                                                |                            | 2                                                                                                                  | Lab Fees                                   | \$405.00          |
| Total                                                                                                                                                                                                   |                            | 13                                                                                                                 | TOTAL                                      | \$2,908.00        |
| *Some courses may have a prerequisite in addition to the classes listed above. Please <u>contact an Academic Coach</u> for details. Visit <u>watc.edu/checklist</u> for program admission requirements. |                            | *Cost does not include online fees, books or tools.<br>Financial Assistance may be available to those who qualify. |                                            |                   |

#### Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$82,070 \$39.46



WATC > Predictive NDT Technologies, AAS

## Predictive NDT Technologies, AAS

### Curriculum

| CRN                         | Course Name                     | Credits     |
|-----------------------------|---------------------------------|-------------|
| Required Technic            |                                 | O. Garto    |
| AVC 102 Precision           |                                 | 1           |
| AVC 110 Safety/OS           |                                 | 1           |
| _                           | Particle Testing Method for NDT | 3           |
| •                           | Testing Method Level I          | 3           |
| NDT 150 Vibration A         |                                 | 3<br>3      |
| NDT 151 Vibration A         |                                 | 3           |
| NDT 152 Vibration A         | nalysis Level III               | 3           |
| NDT 155Thermogra            | aphy Level I                    | 3<br>3<br>3 |
| NDT 156 Thermogra           | aphy Level II                   | 3           |
| NDT 157 Thermogra           |                                 | 3           |
| NDT 160 Acoustic E          | Emission Testing Level I        | 3           |
|                             | ubrication and Analysis I       | 3           |
|                             | ubrication and Analysis II      | 3           |
|                             | ubrication and Analysis III     | 3           |
| LEN 100 Lean for O          | •                               | 3           |
| NDT 170 Electrical I        | S .                             | 2           |
|                             | fessional Standards             | 2           |
| •                           | Education Courses               |             |
| CED 115 Computer            |                                 | 3           |
| ENG 101 Compositi           |                                 | 3           |
| PHS 110 Physical S          |                                 | 5           |
| MTH 112 College Al          | -                               | 3           |
| PSY 101 General Ps          | sychology                       | 3           |
| OR                          |                                 |             |
| SOC 101 Principles          | <u> </u>                        | •           |
| SPH 111 Interpersor         | nal Communication               | 3           |
| OR                          | aling                           |             |
| SPH 101 Public Spe<br>Total | eaking                          | 6E          |
| TOTAL                       |                                 | 65          |

<sup>\*</sup>Some courses may have a prerequisite in addition to the classes listed above. Please <u>contact an Academic Coach</u> for details. Visit <u>watc.edu/checklist</u> for program admission requirements.

### Start Dates August 2014 August 2015

#### Location

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

|          | Costs*      |
|----------|-------------|
| Tuition  | \$8,209.00  |
| Fees     | \$1,918.00  |
| Lab Fees | \$1,015.00  |
| TOTAL    | \$11.142.00 |

<sup>\*</sup>Cost does not include online fees, books or tools. Financial Assistance may be available to those who qualify.

This chart contains the results of the one-year follow-up

#### Success Rate

study conducted of 2013 Wichita Area Technical
College postsecondary program completers. WATC defines
success as those graduates who have found placement in a job, the
military or are enrolled in advanced study.
Eligible graduates contacted in follow-up study
NA
Placement rate
NA

#### Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

| Annually | Hourly  |
|----------|---------|
| \$82,070 | \$39.46 |



WATC > Predictive NDT Technologies, TC

### August 2014 August 2015 Predictive NDT Technologies, TC

### Curriculum

| CRN                   | Course Name                   | Credits |
|-----------------------|-------------------------------|---------|
| Required Technical    | Courses                       |         |
| AVC 102 Precision Ins | struments                     | 1       |
| AVC 110 Safety/OSH/   | A 10                          | 1       |
| NDT 101 Magnetic Pa   | rticle Testing Method for NDT | 3       |
| NDT 150 Vibration Ana | alysis Level I                | 3       |
| NDT 151 Vibration Ana | alysis Level II               | 3       |
| NDT 152 Vibration Ana | alysis Level III              | 3       |
| NDT 155 Thermograp    | hy Level I                    | 3       |
| NDT 156 Thermograp    | hy Level II                   | 3       |
| NDT 157 Thermograp    |                               | 3       |
| NDT 160 Acoustic Em   | ission Testing Level I        | 3       |
| NDT 165 Machine Lub   | rication and Analysis I       | 3       |
| NDT 166 Machine Lub   | rication and Analysis II      | 3       |
| NDT 167 Machine Lub   | rication and Analysis III     | 3       |
| LEN 100 Lean for Ope  | erations                      | 3       |
| NDT 170 Electrical Mo | tor Testing                   | 2       |
| PVD 105 Global Profe  | ssional Standards             | 2       |
| Required General E    | ducation Courses              |         |
| CED 101 Computer Es   | ssentials                     | 2       |
| MTH 020 Math Founda   | amentals                      | 3       |
| Total                 |                               | 47      |

<sup>\*</sup>Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Coach for details. Visit watc.edu/checklist for program admission requirements.

### Location

Start Dates

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

|          | Costs*                                                               |
|----------|----------------------------------------------------------------------|
| Tuition  | \$6,775.00                                                           |
| Fees     | \$1,387.00                                                           |
| Lab Fees | \$908.00                                                             |
| TOTAL    | \$9,070.00                                                           |
|          | online fees, books or tools.  nay be available to those who qualify. |

#### Success Rate

This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical College postsecondary program completers. WATC defines success as those graduates who have found placement in a job, the military or are enrolled in advanced study. Eligible graduates contacted in follow-up study NA Placement rate NA

#### Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$82,070 \$39.46



WATC > Lubrication Technician and Oil Analyst, COC

# Lubrication Technician and Oil Analyst, COC

### Curriculum

| CRN               | Course Name              | Credits |
|-------------------|--------------------------|---------|
| Required Techni   | cal Courses              |         |
| AVC 102 Precision | n Instruments            | 1       |
| AVC 110 Safety/O  | SHA 10                   | 1       |
| NDT 165 Machine   | Lubrication and Analysis | 1 3     |
| NDT 166 Machine   | Lubrication and Analysis | II 3    |
| NDT 167 Machine   | Lubrication and Analysis | III 3   |
| Required Genera   | al Education Courses     |         |
| CED 101 Compute   | r Essentials             | 2       |
| Total             |                          | 13      |

<sup>\*</sup>Some courses may have a prerequisite in addition to the classes listed above. Please <u>contact an Academic Coach</u> for details. Visit <u>watc.edu/checklist</u> for program admission requirements.

#### Start Dates August 2014 August 2015

#### Location

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

|          | Costs*     |
|----------|------------|
| Tuition  | \$1,811.00 |
| Fees     | \$384.00   |
| Lab Fees | \$298.00   |
| TOTAL    | \$2,492.50 |

<sup>\*</sup>Cost does not include online fees, books or tools.

Financial Assistance may be available to those who qualify.



WATC > PdM Entry-Level Technician, COC

## PdM Entry-Level Technician, COC

### Curriculum

| CRN                                        | Course Name            | Credits |
|--------------------------------------------|------------------------|---------|
| Required Technical Courses                 |                        |         |
| AVC 102 Pred                               | cision Instruments     | 1       |
| AVC 110 Safe                               | ety/OSHA 10            | 1       |
| NDT 150 Vibr                               | ation Analysis Level I | 3       |
| NDT 155 The                                | rmography Level I      | 3       |
| NDT 165 Machine Lubrication and Analysis I |                        | 3       |
| Required General Education Courses         |                        |         |
| MTH 020 Matl                               | n Foundamentals        | 3       |
| Total                                      |                        | 14      |

<sup>\*</sup>Some courses may have a prerequisite in addition to the classes listed above. Please <u>contact an Academic Coach</u> for details. Visit <u>watc.edu/checklist</u> for program admission requirements.

#### Start Dates August 2014 August 2015

#### Location

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

|          | Costs*     |
|----------|------------|
| Tuition  | \$1,874.00 |
| Fees     | \$413.00   |
| Lab Fees | \$284.00   |
| TOTAL    | \$2,571.00 |

<sup>\*</sup>Cost does not include online fees, books or tools. Financial Assistance may be available to those who qualify.



WATC > Thermographer, COC

## Thermographer, COC Curriculum

| CRN                        | Course Name           | Credits |
|----------------------------|-----------------------|---------|
| Required Technical Courses |                       |         |
| AVC 102 F                  | recision Instruments  | s 1     |
| AVC 110 S                  | Safety/OSHA 10        | 1       |
| NDT 112 U                  | Iltrasonic Inspection | I 3     |
| NDT 155 T                  | hermography Level     | l 3     |
| NDT 156 T                  | hermography Level     | II 3    |
| NDT 157 T                  | hermography Level     | III 3   |
| Total                      |                       | 14      |

<sup>\*</sup>Some courses may have a prerequisite in addition to the classes listed above. Please <u>contact an Academic Coach</u> for details. Visit <u>watc.edu/checklist</u> for program admission requirements.

Start Dates August 2014 August 2015

#### Location

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

|          | Costs*     |
|----------|------------|
| Tuition  | \$2,174.00 |
| Fees     | \$413.00   |
| Lab Fees | \$341.00   |
| TOTAL    | \$2,928.00 |

<sup>\*</sup>Cost does not include online fees, books or tools. Financial Assistance may be available to those who qualify.



WATC > Vibration Analyst, COC

### Vibration Analyst, COC

### Curriculum

| CRN                                | Course Name               | Credits |  |
|------------------------------------|---------------------------|---------|--|
| Required Technical Courses         |                           |         |  |
| AVC 102P                           | recision Instruments      | 1       |  |
| AVC 110 S                          | afety/OSHA 10             | 1       |  |
| NDT 150 V                          | ibration Analysis Level I | 3       |  |
| NDT 151 V                          | ibration Analysis Level I | I 3     |  |
| NDT 152 V                          | ibration Analysis Level I | II 3    |  |
| Required General Education Courses |                           |         |  |
| MTH020 M                           | lath Foundamentals        | 3       |  |
| Total                              |                           | 14      |  |

<sup>\*</sup>Some courses may have a prerequisite in addition to the classes listed above. Please <u>contact an Academic Coach</u> for details. Visit <u>watc.edu/checklist</u> for program admission requirements.

#### Start Dates August 2014 August 2015

#### Location

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

|          | Costs*     |  |
|----------|------------|--|
| Tuition  | \$1,874.00 |  |
| Fees     | \$413.00   |  |
| Lab Fees | \$289.00   |  |
| TOTAL    | \$2,576.00 |  |
|          |            |  |

<sup>\*</sup>Cost does not include online fees, books or tools. Financial Assistance may be available to those who qualify.



WATC participates in the South Central Kansas Nursing Partnership with Pratt Community College.

With the partnership, WATC delivers the PN course work on the Pratt Community College campus in Pratt, Kansas and offers a hybrid PN program on the NCAT campus in Wichita.

The partnership also includes AD nursing courses (LPN to RN) offered through Pratt Community College on the NCAT campus in Wichita.

As a result of the South Central Kansas Nursing Partnership, WATC and PCC have agreed to "share" transcripts. Students wishing to have WATC transcripts sent to PCC need to contact the WATC registrar's office and complete the required form. Students wishing to have PCC transcripts sent to WATC need to contact the PCC registrar's office and complete the required form.

#### PN Program locations:

Day and evening program: Southside Center Aug. and Jan. start dates 4501 E. 47th St. S.

Wichita, KS 67210

Hybrid program: National Center for Aviation Training

January start date 4004 N. Webb Rd Wichita, KS 67226

Pratt program: Pratt Community College

August start date Chandler Hall

348 NE SR 61 Pratt, KS 67124



WATC > Healthcare Admin & Management, AAS

# Healthcare Admin & Management, AAS Curriculum

Below is the curriculum required to complete an associate degree in Healthcare Administration & Management. The courses highlighted in gray are part of the <u>WATC Practical Nurse curriculum</u>. If you have earned your PN from WATC and want to complete this degree, only the courses in black are required. For an adjusted academic plan, cost and additional information, contact DaJina Kiel at 316-677-1093.

| CRN             | Course Name                          | Credits |
|-----------------|--------------------------------------|---------|
| Required Tech   | nnical Courses                       |         |
|                 | Foundations of Nursing               | 4       |
| PRN121KSPN      | Foundations of Nursing Clinicals     | 2       |
| PRN122KSPN      |                                      | 3       |
| PRN123KSPN      | Medical Surgical Nursing I           | 4       |
| PRN124KSPN      | Medical Surgical Nursing I Clinical  | 3       |
| PRN126KSPN      | Medical Surgical Nursing II          | 4       |
| PRN127KSPN      | Medical Surgical Nursing II Clinical | I 3     |
| PRN130KSPN      | Maternal Child Nursing               | 2       |
| PRN131KSPN      | Maternal Child Nursing Clinical      | 1       |
| PRN132KSPN      | Gerontology Nursing                  | 2       |
| PRN 134 Role D  | evelopment                           | 2       |
| PRN135KSPN      | Mental Health Nursing                | 2       |
| PRN 136 Transit | tion to Nursing                      | 2       |
| PRN 170 Healtho | care Practice Management             | 3       |
| PRN 175 Health  | care Management Research             | 4       |
| PRN 180 Healtho | care Issues                          | 3       |
| Required Gene   | eral Education Courses               |         |
| ALH 110 Princip | les of Nutrition                     | 3       |
| BIO 150 Human   | n Anatomy & Physiology               | 5       |
| PSY 101 Genera  | al Psychology                        | 3       |
| PSY 120 Develo  | pmental Psychology                   | 3       |
| ENG 101 Compo   | osition I                            | 3       |
| MTH 112 College | e Algebra                            | 3       |
| SPH 101 Public  | Speaking                             | 3       |
| OR              |                                      |         |
| SPH 111 Interpe | rsonal Communication                 |         |
| Total           |                                      | 67      |
|                 |                                      |         |

\*Some courses may have a prerequisite in addition to the classes listed above. Please <u>contact an Academic Coach</u> for details. Visit <u>watc.edu/checklist</u> for program admission requirements.

#### Start Dates

August 2014 October 2014 January 2015 March 2015 June 2015 June 2015

#### Location

Southside Center

4501 E. 47th Street South | Wichita, KS 67210 316.677.1500 Get maps at watc.edu/campuses

|          | Costs*      |
|----------|-------------|
| Tuition  | \$6,597.00  |
| Fees     | \$1,977.00  |
| Lab Fees | \$1,688.00  |
| TOTAL    | \$10,262.00 |

\*Cost does not include online fees, books or tools.

Financial Assistance may be available to those who qualify.

#### Success Rate

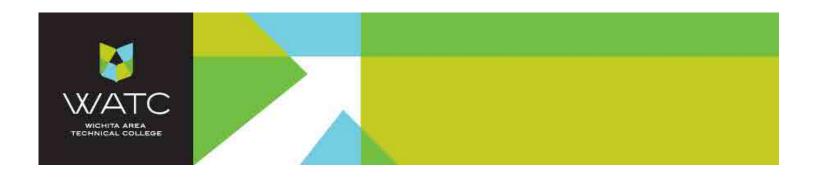
This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical
College postsecondary program completers. WATC defines success as those graduates who have found placement in a job, the military or are enrolled in advanced study.

Eligible graduates contacted in follow-up study
94
Placement rate
99%

#### Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$39,300 \$18.89



WATC > Practical Nurse, TC

## Practical Nurse, TC

| CRN             | Course Name                            | Credits |
|-----------------|----------------------------------------|---------|
| Required Tec    | hnical Courses                         |         |
| PRN120KSPN      | Foundations of Nursing                 | 4       |
| PRN121KSPN      | Foundations of Nursing Clinicals       | 2       |
| PRN122KSPN      | l Pharmacology                         | 3       |
| PRN123KSPN      | Medical Surgical Nursing I             | 4       |
| PRN 124 KSPN    | Medical Surgical Nursing I Clinical    | 3       |
| PRN126KSPN      | Medical Surgical Nursing II            | 4       |
| PRN127KSPN      | l Medical Surgical Nursing II Clinical | 3       |
| PRN130KSPN      | Maternal Child Nursing                 | 2       |
| PRN 131 KSPN    | Maternal Child Nursing Clinical        | 1       |
| PRN132KSPN      | Gerontology Nursing                    | 2       |
| PRN 134 Role [  | Development                            | 2       |
| PRN 135 KSPN    | Mental Health Nursing                  | 2       |
| PRN 136 Trans   | ition to Nursing                       | 2       |
| Required Gen    | eral Education Courses                 |         |
| ALH 110 Princip | ples of Nutrition                      | 3       |
| BIO 150 Huma    | n Anatomy & Physiology                 | 5       |
| PSY 101 Gener   | al Psychology                          | 3       |
| PSY 120 Develo  | opmental Psychology                    | 3       |
| Total           |                                        | 48      |

<sup>\*</sup>Some courses may have a prerequisite in addition to the classes listed above. Please <u>contact an Academic Coach</u> for details. Visit watc.edu/checklist for program admission requirements.

#### Start Dates

August 2014 October 2014 January 2015 March 2015 June 2015 June 2015

#### Location

Southside Center

4501 E. 47th Street South | Wichita, KS 67210 316.677.1500 Get maps at watc.edu/campuses

|          | Costs*     |  |
|----------|------------|--|
| Tuition  | \$4,860.00 |  |
| Fees     | \$1,416.00 |  |
| Lab Fees | \$1,688.00 |  |
| TOTAL    | \$7,964.00 |  |
|          |            |  |

\*Cost does not include online fees, books or tools.

Financial Assistance may be available to those who qualify.

#### Success Rate

This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical
College postsecondary program completers. WATC defines success as those graduates who have found placement in a job, the military or are enrolled in advanced study.

Eligible graduates contacted in follow-up study

94
Placement rate

99%

#### Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$39,300 \$18.89



WATC > Certified Medication Aide, COC

## Certified Medication Aide, COC Curriculum

CRN Course Name Credits
Required Technical Courses
GRA119 Medication Aide 5
Total 5

\*Some courses may have a prerequisite in addition to the classes listed above. Please <u>contact an Academic Coach</u> for details. Visit <u>watc.edu/checklist</u> for program admission requirements.

Start Dates

August 2014 October 2014 January 2015 March 2015 June 2015 June 2015

#### Location

Southside Center

4501 E. 47th Street South | Wichita, KS 67210 316.677.1500 Get maps at watc.edu/campuses

|          | Costs*   |  |
|----------|----------|--|
| Tuition  | \$460.00 |  |
| Fees     | \$148.00 |  |
| Lab Fees | \$150.00 |  |
| TOTAL    | \$758.00 |  |

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

,

#### Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$22,900 \$11.02



WATC > Certified Nurse Aide, COC

## Certified Nurse Aide, COC Curriculum

CRN Course Name Credits
Required Technical Courses
GRA101 Certified Nurse Aide 5
Total 5

\*Some courses may have a prerequisite in addition to the classes listed above. Please <u>contact an Academic Coach</u> for details. Visit <u>watc.edu/checklist</u> for program admission requirements.

Start Dates

August 2014 October 2014 January 2015 March 2015 June 2015 June 2015

#### Location

Southside Center

4501 E. 47th Street South | Wichita, KS 67210 316.677.1500 Get maps at watc.edu/campuses

| Cos | its* |
|-----|------|
|-----|------|

|                            | 000.0              |
|----------------------------|--------------------|
| Tuition                    | \$460.00           |
| Fees                       | \$148.00           |
| Lab Fees                   | \$157.00           |
| TOTAL                      | \$765.00           |
| *Cost does not include onl | ine fees, books or |

tools. Financial Assistance may be available to those who qualify.

#### Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$22,710 \$10.92



WATC > Home Health Aide, COC

## Home Health Aide, COC Curriculum

CRN Course Name Credits
Required Technical Courses
HHA100 Home Health Aide 2
Total 2

\*Some courses may have a prerequisite in addition to the classes listed above. Please <u>contact an Academic Coach</u> for details. Visit <u>watc.edu/checklist</u> for program admission requirements.

Start Dates

August 2014 October 2014 January 2015 March 2015 June 2015 June 2015

#### Location

Southside Center

4501 E. 47th Street South | Wichita, KS 67210 316.677.1500 Get maps at watc.edu/campuses

| Costs* | • |
|--------|---|
|--------|---|

|                                              | 00010    |
|----------------------------------------------|----------|
| Tuition                                      | \$184.00 |
| Fees                                         | \$59.00  |
| Lab Fees                                     | \$91.00  |
| TOTAL                                        | \$334.00 |
| *Cost does not include online fees, books or |          |

tools. Financial Assistance may be available to those who qualify.

#### Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$21,530 \$10.35



Start Dates

August 2014 March 2015 October 2014 June 2015

January 2015

June 2014

WATC > Operations Management, AAS

## Operations Management, AAS Curriculum

Location CRN Course Name Credits Southside Center Required Technical Courses 4501 E. 47th Street South | Wichita, KS 67210 LEN 100 Lean for Operations 3 OPM105 Operations Management for Organizational Success 316.677.9400 Get maps at watc.edu/campuses 3 OPM110 Introduction to Supply Chain Management 3 Costs\* OPM115 Introduction to Project Management 3 **Tuition** \$4,708.00 PSS 100 Six Sigma Yellow Belt 1 Fees \$1.859.00 \$56.00 PSS 101 Six Sigma Green Belt Methods 3 Lab Fees PSS 105 Six Sigma Green Belt Statistics 3 TOTAL \$6,223.00 Required General Education Courses \*Cost does not include online fees, books or tools. ACC 130 Managerial Accounting 3 Financial Assistance may be available to those who qualify. ACC 160 Principles of Accounting I 3 Success Rate ACC 170 Principles of Accounting II 3 This chart contains the results of the one-year follow-up BUS 104 Introduction to Business 3 study conducted of 2013 Wichita Area Technical 3 BUS 200 Principles of Management College postsecondary program completers. WATC defines CED 115 Computer Applications success as those graduates who have found placement in a job, the 3 ECO 105 Principles of Macroeconomics military or are enrolled in advanced study. ECO 110 Principles of Microeconomics Eligible graduates contacted in follow-up study 7 ENG 101 Composition I 3 Placement rate 86% 3 MTH 112 College Algebra HIS 120 United States History since 1865 3 Wages PSY 101 General Psychology 3 BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of SPH 101 Public Speaking selected occupation in Wichita, KS. WATC does not guarantee the BIO 110 Principles of Biology below wages. Annually Hourly CHM 110 General Chemistry \$34,770 \$16.72 OR PHS 110 Physical Science Total

\*Some courses may have a prerequisite in addition to the classes listed above. Please <u>contact an Academic Coach</u> for details. Visit watc.edu/checklist for program admission requirements.



WATC > Operations Management, TC

### Operations Management, TC Curriculum

| CRN                       | Course Name                        | Cred        |
|---------------------------|------------------------------------|-------------|
| Required Technica         | al Courses                         |             |
| LEN 100 Lean for O        | 1                                  | 3           |
| OPM105 Operations Success | Management for Organizational      | 3           |
| OPM110 Introduction       | n to Supply Chain Management       | 3           |
| OPM115 Introduction       | n to Project Management            | 3           |
| PSS 100 Six Sigma         | Yellow Belt                        | 1           |
| PSS 101 Six Sigma         | Green Belt Methods                 | 3           |
| Required General          | Education Courses                  |             |
| ACC 130 Managerial        | l Accounting                       | 3           |
| ACC 160 Principles        | of Accounting I                    | 3           |
| ACC 170 Principles        | of Accounting II                   | 3           |
| BUS 104 Introduction      | n to Business                      | 3           |
| BUS 200 Principles        | of Management                      | 3           |
| CED 115 Computer          | Applications                       | 3           |
| PSY 101 General Ps        | sychology                          | 3           |
| SPH 101 Public Spe        | eaking                             | 3           |
| Total                     |                                    | 40          |
| *Some courses may         | have a prerequisite in addition to | the classes |

\*Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Coach for details. Visit watc.edu/checklist for program admission requirements.

Start Dates

June 2014 January 2015 August 2014 March 2015 October 2014 June 2015

| edits | Location |
|-------|----------|
| eans  | Location |

Southside Center

4501 E. 47th Street South | Wichita, KS 67210 316.677.9400 Get maps at watc.edu/campuses

| 3 |          | Costs*     |
|---|----------|------------|
| 3 | Tuition  | \$3,130.00 |
| 1 | Fees     | \$1,180.00 |
| 3 | Lab Fees | \$0.00     |
|   | TOTAL    | \$4,310.00 |

\*Cost does not include online fees, books or tools.

Financial Assistance may be available to those who qualify.

#### Success Rate

This chart contains the results of the one-year follow-up

study conducted of 2013 Wichita Area Technical

College postsecondary program completers. WATC defines

success as those graduates who have found placement in a job, the

military or are enrolled in advanced study.

Eligible graduates contacted in follow-up study

7 Placement rate 86%

#### Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$34,770 \$16.72



WATC > Operations Management, COC

### Operations Management, COC

### Curriculum

Start Dates
June 2014 January 2015
August 2014 March 2015
October 2014 June 2015

| CRN                                                                                                                                                                                       | Course Name                              | Credits                                                                                                            |                    | Location                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|--------------------------------------------------------------------------------------------------------------------|--------------------|------------------------------|
| Required Tec                                                                                                                                                                              | hnical Courses                           |                                                                                                                    | Southside Center   |                              |
| LEN 100 Lean                                                                                                                                                                              | for Operations                           | 3                                                                                                                  | 4501 E. 47th Stree | et South   Wichita, KS 67210 |
| OPM105 Oper                                                                                                                                                                               | ations Management for Organizational ess | 3                                                                                                                  | 316.677.9400 Get   | maps at watc.edu/campuses    |
| OPM110 Introd                                                                                                                                                                             | luction to Supply Chain Management       | 3                                                                                                                  |                    | Costs*                       |
| OPM115 Introd                                                                                                                                                                             | luction to Project Management            | 3                                                                                                                  | Tuition            | \$1,383.00                   |
| Required Ger                                                                                                                                                                              | neral Education Courses                  |                                                                                                                    | Fees               | \$443.00                     |
| PSY 101 Gene                                                                                                                                                                              | ral Psychology                           | 3                                                                                                                  | Lab Fees           | \$0.00                       |
| Total                                                                                                                                                                                     |                                          | 15                                                                                                                 | TOTAL              | \$1,826.00                   |
| *Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Coach for details. Visit watc.edu/checklist for program admission requirements. |                                          | *Cost does not include online fees, books or tools.<br>Financial Assistance may be available to those who qualify. |                    |                              |

#### Success Rate

This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical College postsecondary program completers. WATC defines success as those graduates who have found placement in a job, the military or are enrolled in advanced study. Eligible graduates contacted in follow-up study

7

Placement rate

86%

Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$34,770 \$16.72



Start Dates
June 2014 January 2015

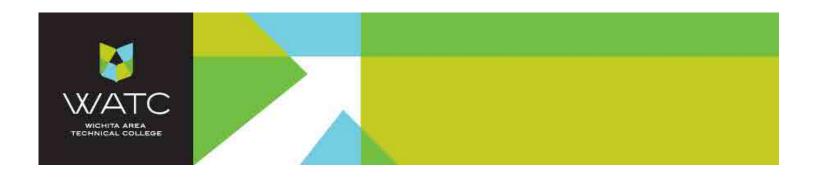
August 2014 March 2015 October 2014 June 2015

WATC > Police Science, AAS

## Police Science, AAS Curriculum

| CRN             | Course Name                                | Credits |                                                | Location                                                                               |            |
|-----------------|--------------------------------------------|---------|------------------------------------------------|----------------------------------------------------------------------------------------|------------|
| Required Tech   | nnical Courses                             |         | Southside Cente                                | er                                                                                     |            |
| CRJ 101 Introdu | uction to Criminal Justice                 | 3       | 4501 E. 47th Str                               | eet South   Wichita, KS 67210                                                          |            |
| CRJ 105 Crimir  | nal Investigation                          | 3       | 316.677.9400 Ge                                | et maps at watc.edu/campuses                                                           |            |
| CRJ 110 Crimir  |                                            | 3       |                                                |                                                                                        |            |
| CRJ 115 Agenc   | y Administration                           | 3       |                                                | Costs*                                                                                 |            |
| CRJ 120 Juveni  | ile Delinquency and Justice                | 3       | Tuition                                        | \$3,528.00                                                                             |            |
| CRJ 125Law E    | inforcement Operations and Procedures      | 3       | Fees                                           | \$1,625.00                                                                             |            |
| CJR 130 Crimir  |                                            | 3       | Lab Fees                                       | \$31.00                                                                                |            |
| CRJ 135 Crimir  | nal Justice Interview and Report Writing   | 3       | TOTAL                                          | \$5,211.00                                                                             |            |
| CRJ 140 Profes  | ssional Responsibility in Criminal Justice | 3       | *Cost does not i                               | nclude online fees, books or tools.                                                    |            |
| CRJ 145 Correc  |                                            | 3       | Financial Assista                              | ance may be available to those who qualify                                             | •          |
| CRJ 180 KLETO   | C or Equivalent Law enforcement Academy    | 12      |                                                | Success Rate                                                                           |            |
| Required Gen    | eral Education Courses                     |         | This chart conta                               | ins the results of the one-year follow-up                                              |            |
| CED 115 Comp    | uter Applications                          | 3       | study conducted of 2013 Wichita Area Technical |                                                                                        |            |
| CHM 110 Gener   | al Chemistry                               |         |                                                | ondary program completers. WATC define                                                 |            |
| OR              |                                            |         |                                                | se graduates who have found placement in                                               | a job, the |
| PHS 110 Physic  | cal Science                                |         | •                                              | nrolled in advanced study.                                                             | NIA        |
| ENG 101 Comp    | osition I                                  | 3       | Placement rate                                 | es contacted in follow-up study                                                        | NA<br>NA   |
| MTH 112 Colleg  | je Algebra                                 | 3       | Placement rate                                 |                                                                                        | INA        |
| POL 101 Ameri   | can Government                             | 3       |                                                | Mogoo                                                                                  |            |
| HIS 120 United  | States History since 1865                  | 3       | DI C Data Causa                                | Wages                                                                                  | Mosso of   |
| PSY 101 Gener   | al Psychology                              | 3       |                                                | e: Bureau of Labor Statistics (2012); Mean<br>tion in Wichita, KS. WATC does not guara |            |
| OR              |                                            |         | below wages.                                   | mon in Wichita, No. WATO does not guara                                                | ince inc   |
| SOC 101 Princip | ples of Sociology                          |         | Annually                                       | Hourly                                                                                 |            |
| SPH 101 Public  | Speaking                                   | 3       | \$45,960                                       | \$22.10                                                                                |            |
| OR              |                                            |         | ψ 10,000                                       | Ψ22.10                                                                                 |            |
| SPH 111 Interpe | ersonal Communication                      |         |                                                |                                                                                        |            |
| <del>-</del>    |                                            |         |                                                |                                                                                        |            |

\*Some courses may have a prerequisite in addition to the classes listed above. Please <u>contact an Academic Coach</u> for details. Visit <u>watc.edu/checklist</u> for program admission requirements.



WATC > Police Science, TC

## Police Science, TC Curriculum

| CRN C                      | Course Name                      | Credits |
|----------------------------|----------------------------------|---------|
| Required Technical Cou     | ırses                            |         |
| CRJ 101 Introduction to C  | riminal Justice                  | 3       |
| CRJ 105 Criminal Investig  | ation                            | 3       |
| CRJ 110 Criminal Law       |                                  | 3       |
| CRJ 115 Agency Administ    | ration                           | 3       |
| CRJ 120 Juvenile Delinque  | ency and Justice                 | 3       |
| CRJ 125 Law Enforcemen     | nt Operations and Procedures     | 3       |
| CRJ 130 Criminal Procedu   | ıres                             | 3       |
| CRJ 135 Criminal Justice   | Interview and Report Writing     | 3       |
| CRJ 140 Professional Res   | sponsibility in Criminal Justice | 3       |
| CRJ 145 Corrections        |                                  | 3       |
| CRJ 150 Community Police   | ing                              | 3       |
| CRJ 155 Policing Diverse   | Cultures                         | 3       |
| CRJ 160 Internship in Crin | ninal Justice                    | 3       |
| OR                         |                                  |         |
| CRJ 165 Directed Indepen   | ident Study                      |         |
| CRJ 170 Seminars in Crin   | ninal Justice                    | 3       |
| Required General Educ      | ation Courses                    |         |
| CED 115 Computer Applic    | ations                           | 3       |
| MTH 112 College Algebra    |                                  | 3       |
| Total                      |                                  | 48      |

<sup>\*</sup>Some courses may have a prerequisite in addition to the classes listed above. Please <u>contact an Academic Coach</u> for details. Visit <u>watc.edu/checklist</u> for program admission requirements.

#### Start Dates

June 2014 January 2015 August 2014 March 2015 October 2014 June 2015

#### Location

Southside Center

4501 E. 47th Street South | Wichita, KS 67210 316.677.9400 Get maps at watc.edu/campuses

|          | Costs*     |
|----------|------------|
| Tuition  | \$3,024.00 |
| Fees     | \$1,416.00 |
| Lab Fees | \$0.00     |
| TOTAL    | \$4,440.00 |

\*Cost does not include online fees, books or tools.

Financial Assistance may be available to those who qualify.

#### Success Rate

This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical
College postsecondary program completers. WATC defines success as those graduates who have found placement in a job, the military or are enrolled in advanced study.

Eligible graduates contacted in follow-up study
NA
Placement rate
NA

#### Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$45,960 \$22.10



WATC > Robotics, AAS

### Robotics, AAS Curriculum

| CF   | RN Course Name                                        | Credits  |
|------|-------------------------------------------------------|----------|
| Requ | uired Technical Courses                               |          |
| ORI  | 005 Manufacturing Orientation                         | 0        |
| AVC  | 110 Safety/OSHA 10                                    | 1        |
| IND  | 106 Direct & Alternating Current                      | 4        |
| IND  | 109 Basic Industrial Programmable Logic Controls      |          |
|      | 112 Fundamentals of Motor Control                     | 2        |
| IND  | 131 Industrial Programmable Logic Controls            | 3        |
| IND  | 132 Industrial Instrumentation                        | 3        |
| PVD  | 105 Global Professional Standards                     | 2        |
|      | 100 Introduction to Robotics                          | 3        |
|      | 101 Manufacturing Control & Work Cell Interfacing     | 2        |
|      | 102 Work Cell Design Laboratory                       | 1        |
| ROB  | 103 Applied Robotics Lab I                            | 3        |
| ROB  | 104 Robotics Simulation                               | 2        |
| _    | 106 Robotics Controller Maintenance                   | 3        |
|      | 110 Applied Robotics Lab II                           | 3        |
|      | 111 Advanced Robot Controller Programming             | 2        |
|      | 125 Advanced Industrial Workcell Programming          | 3        |
| Requ | uired General Education Courses                       |          |
| ENG  | 101 Composition I                                     | 3        |
| MTH  | 112 College Algebra                                   | 3        |
| MTH  | 113 Trigonometry                                      | 3        |
| ECO  | 105 Principles of Macroeconomics                      | 3        |
| SPH  | 101 Public Speaking                                   | 3        |
| PHS  | 120 General Physics I                                 | 5        |
| Tota | 1                                                     | 60       |
| *Som | ne courses may have a prerequisite in addition to the | e classe |

<sup>\*</sup>Some courses may have a prerequisite in addition to the classes listed above. Please <u>contact an Academic Coach</u> for details. Visit <u>watc.edu/checklist</u> for program admission requirements.

#### Start Dates

August 2014 October 2014 January 2015 March 2015 June 2015 June 2015

#### Location

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

|          | Costs*      |
|----------|-------------|
| Tuition  | \$6,786.00  |
| Fees     | \$1,770.00  |
| Lab Fees | \$1,493.00  |
| TOTAL    | \$10,049.00 |
|          |             |

<sup>\*</sup>Cost does not include online fees, books or tools.

Financial Assistance may be available to those who qualify.

#### Success Rate

This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical College postsecondary program completers. WATC defines success as those graduates who have found placement in a job, the military or are enrolled in advanced study.

Eligible graduates contacted in follow-up study

NA

Placement rate

NA

#### Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.



WATC > Robotics, TC

## Robotics, TC

| CF   | CRN Course Name                                     |    |  |
|------|-----------------------------------------------------|----|--|
| Req  | uired Technical Courses                             |    |  |
| ORI  | 005 Manufacturing Orientation                       | 0  |  |
| IND  | 106 Direct & Alternating Current                    | 4  |  |
| IND  | 109 Basic Industrial Programmable Logic Controls    | 3  |  |
| IND  | 112 Fundamentals of Motor Control                   | 2  |  |
| IND  | 131 Industrial Programmable Logic Controls          | 3  |  |
| IND  | 132 Industrial Instrumentation                      | 3  |  |
| ROE  | 3 100 Introduction to Robotics                      | 3  |  |
| ROE  | 3 101 Manufacturing Control & Work Cell Interfacing | 2  |  |
| ROE  | 3102 Work Cell Design Laboratory                    | 1  |  |
| ROE  | 3103 Applied Robotics Lab I                         | 3  |  |
| ROE  | 3 104 Robotics Simulation                           | 2  |  |
| ROE  | 106 Robotics Controller Maintenance                 | 3  |  |
| ROE  | 3110 Applied Robotics Lab II                        | 3  |  |
| ROE  | 3111 Advanced Robot Controller Programming          | 2  |  |
| ROE  | 3125 Advanced Industrial Workcell Programming       | 3  |  |
| Req  | uired General Education Courses                     |    |  |
| MTH  | 112 College Algebra                                 | 3  |  |
| MTH  | 113 Trigonometry                                    | 3  |  |
| PHS  | 120 General Physics I                               | 5  |  |
| Tota | I                                                   | 48 |  |

\*Some courses may have a prerequisite in addition to the classes listed above. Please <u>contact an Academic Coach</u> for details. Visit <u>watc.edu/checklist</u> for program admission requirements.

#### Start Dates

August 2014 October 2014 January 2015 March 2015 June 2015 June 2015

#### Location

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

|          | Costs*     |
|----------|------------|
| Tuition  | \$5,984.00 |
| Fees     | \$1,416.00 |
| Lab Fees | \$1,423.00 |
| TOTAL    | \$8,823.00 |
|          |            |

\*Cost does not include online fees, books or tools.

Financial Assistance may be available to those who qualify.

#### Success Rate

This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical College postsecondary program completers. WATC defines success as those graduates who have found placement in a job, the military or are enrolled in advanced study.

Eligible graduates contacted in follow-up study

NA

Placement rate

NA

#### Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.



WATC > Basic Robotics Technology, TC

## Basic Robotics Technology, TC Curriculum

| CRN                 | Course Name                          | Credits |
|---------------------|--------------------------------------|---------|
| Required Technic    | al Courses                           |         |
| ORI 005 Manufactu   | ring Orientation                     | 0       |
| ROB 100 Introductio | n to Robotics                        | 3       |
| ROB 101 Manufactu   | ring Control & Work Cell Interfacing | 2       |
| ROB 103 Applied Ro  | botics Lab I                         | 3       |
| ROB 104 Robotics S  | Simulation                           | 2       |
| Required General    | Education Courses                    |         |
| MTH 112 College Ale | gebra                                | 3       |
| MTH 113 Trigonome   | etry                                 | 3       |
| Total               |                                      | 16      |

<sup>\*</sup>Some courses may have a prerequisite in addition to the classes listed above. Please <u>contact an Academic Coach</u> for details. Visit <u>watc.edu/checklist</u> for program admission requirements.

Start Dates

August 2014 October 2014 January 2015 March 2015 June 2015 June 2015

#### Location

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

|                        | Costs*                    |
|------------------------|---------------------------|
| Tuition                | \$1,808.00                |
| Fees                   | \$472.00                  |
| Lab Fees               | \$675.00                  |
| TOTAL                  | \$2,955.00                |
| *Cost does not include | online fees, books or too |

Financial Assistance may be available to those who qualify.

#### Success Rate

This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical College postsecondary program completers. WATC defines success as those graduates who have found placement in a job, the military or are enrolled in advanced study.

Eligible graduates contacted in follow-up study

NA

Eligible graduates contacted in follow-up study NA
Placement rate NA

#### Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.



WATC > Advanced Robotics Technology, TC

## Advanced Robotics Technology, TC

### Curriculum

| CRN                     | Course Name                       | Credits |
|-------------------------|-----------------------------------|---------|
| Required Technical (    | Courses                           |         |
| ORI 005 Manufacturing   | g Orientation                     | 0       |
| ROB 100 Introduction to | Robotics                          | 3       |
| ROB 101 Manufacturing   | g Control & Work Cell Interfacing | 2       |
| ROB 102 Work Cell De    | sign Laboratory                   | 1       |
| ROB 103 Applied Robo    | tics Lab I                        | 3       |
| ROB 104 Robotics Sim    | ulation                           | 2       |
| ROB 106 Robotics Cor    | troller Maintenance               | 3       |
| ROB 110 Applied Robo    | tics Lab II                       | 3       |
| ROB 111 Advanced Ro     | bot Controller Programming        | 2       |
| ROB 125 Advanced Ind    | ustrial Workcell Programming      | 3       |
| Required General Ed     | ucation Courses                   |         |
| MTH 112 College Algeb   | ora                               | 3       |
| MTH 113 Trigonometry    |                                   | 3       |
| PHS 120 General Phys    | ics I                             | 5       |
| Total                   |                                   | 48      |

<sup>\*</sup>Some courses may have a prerequisite in addition to the classes listed above. Please <u>contact an Academic Coach</u> for details. Visit <u>watc.edu/checklist</u> for program admission requirements.

#### Start Dates

August 2014 October 2014 January 2015 March 2015 June 2015 June 2015

#### Location

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

|                                                                                                                    | Costs*     |
|--------------------------------------------------------------------------------------------------------------------|------------|
| Tuition                                                                                                            | \$3.839.00 |
| Fees                                                                                                               | \$974.00   |
| Lab Fees                                                                                                           | \$1,097.00 |
| TOTAL                                                                                                              | \$5,910.00 |
| *Cost does not include online fees, books or tools.<br>Financial Assistance may be available to those who qualify. |            |

#### Success Rate

This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical
College postsecondary program completers. WATC defines success as those graduates who have found placement in a job, the military or are enrolled in advanced study.

Eligible graduates contacted in follow-up study
NA
Placement rate
NA

#### Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.



WATC > Surgical Technology, TC

### Surgical Technology, TC

#### Curriculum

Required General Education Courses CRN Course Name Required Technical Courses SGT 101 Introduction to Surgical Technolog SGT 107 Pharmacology for Surgical Techn SGT 115 Surgical Procedures I SGT 119 Surgical Technology - Clinical Exp SGT 120 Principles & Practices in Surgical SGT 125 Surgical Procedures II SGT 129 Surgical Technology - Clinical Ex SGT 130 Surgical Technology - Clinical Ex SGT 140 Principles & Practices in Surgical SGT 145 Surgical Technologist Exam Review Required General Education Courses ALH 101 Medical Terminology BIO 150 Human Anatomy & Physiology CPR 001 CPR for Health Care Providers BIO 150 Microbiology Total

#### Start Dates

August 2014 October 2014 January 2015 March 2015 June 2015 June 2015

#### Location

| Credits                      |    | Southside Center                                                                                              |                              |        |  |
|------------------------------|----|---------------------------------------------------------------------------------------------------------------|------------------------------|--------|--|
|                              |    | 4501 E. 47th Stree                                                                                            | t South   Wichita, KS 67210  |        |  |
| ogy                          | 4  | 316.677.1500 Get r                                                                                            | maps at watc.edu/campuses    |        |  |
| nology                       | 3  |                                                                                                               |                              |        |  |
|                              | 4  |                                                                                                               | Costs*                       |        |  |
| xperience I                  | 4  | Tuition                                                                                                       | \$5,977.00                   |        |  |
| al Technology                | 5  | Fees                                                                                                          | \$1,505.00                   |        |  |
|                              | 5  | Lab Fees                                                                                                      | \$2,058.00                   |        |  |
| xperience II                 | 5  | TOTAL                                                                                                         | \$9,540.00                   |        |  |
| xperience III                | 4  | *Cost does not include online fees, books or tools.                                                           |                              |        |  |
| al Technology Lab            | 3  | Financial Assistance may be available to those who qualify.                                                   |                              | fy.    |  |
| view .                       | 1  |                                                                                                               |                              |        |  |
|                              |    |                                                                                                               | Success Rate                 |        |  |
|                              | 3  | This chart contains the results of the one-year follow-up                                                     |                              |        |  |
|                              | 5  | study conducted of 2013 Wichita Area Technical                                                                |                              |        |  |
|                              | 1  | College postsecondary program completers. WATC defines                                                        |                              |        |  |
|                              | 5  | success as those graduates who have found placement in a job, the military or are enrolled in advanced study. |                              |        |  |
|                              | 52 | •                                                                                                             | contacted in follow-up study | 22     |  |
| n addition to the classes    |    | Placement rate                                                                                                | Somacted in follow-up study  | 100%   |  |
| On a sla fam alataila Affait |    | i iacementiate                                                                                                |                              | 100 /0 |  |

#### Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$41,800 \$20.09

<sup>\*</sup>Some courses may have a prerequisite in addition to the classes listed above. Please <u>contact an Academic Coach</u> for details. Visit <u>watc.edu/checklist</u> for program admission requirements.



WATC > Surgical Technology, AAS

### Surgical Technology, AAS

### Curriculum

#### Start Dates

August 2014 October 2014 January 2015 March 2015 June 2015 June 2015

| equired General                                          | Education Courses                   |    |                                                                                                                          | Location                                            |                |
|----------------------------------------------------------|-------------------------------------|----|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|----------------|
| CRN Course Name                                          |                                     |    | Southside Cente                                                                                                          | r                                                   |                |
| lequired Technical Courses                               |                                     |    | 4501 E. 47th Stre                                                                                                        | eet South   Wichita, KS 67210                       |                |
| GT 101 Introduction                                      | on to Surgical Technology           | 4  | 316.677.1500 Get maps at watc.edu/campuses                                                                               |                                                     |                |
| GT 107 Pharmaco                                          | ology for Surgical Technology       | 3  |                                                                                                                          |                                                     |                |
| GT 115 Surgical F                                        | Procedures I                        | 4  |                                                                                                                          | Costs*                                              |                |
| GT 119 Surgical T                                        | echnology – Clinical Experience I   | 4  | Tuition                                                                                                                  | \$6,922.00                                          |                |
| GT 120 Principles                                        | & Practices in Surgical Technology  | 5  | Fees                                                                                                                     | \$1,947.00                                          |                |
| GT 125 Surgical F                                        | Procedures II                       | 5  | Lab Fees                                                                                                                 | \$2,058.00                                          |                |
| -                                                        | echnology – Clinical Experience II  | 5  | TOTAL                                                                                                                    | \$10,927.00                                         |                |
| •                                                        | echnology – Clinical Experience III | 4  |                                                                                                                          | *Cost does not include online fees, books or tools. |                |
| GT 140 Principles & Practices in Surgical Technology Lab |                                     | 3  | Financial Assista                                                                                                        | nce may be available to those who quali             | i <b>y</b> .   |
| •                                                        | echnologist Exam Review             | 1  |                                                                                                                          |                                                     |                |
| Required General                                         | Education Courses                   |    |                                                                                                                          | Success Rate                                        |                |
| LH 101 Medical Terminology                               |                                     | 3  | This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical                 |                                                     |                |
| IO 150 Human Anatomy & Physiology                        |                                     | 5  |                                                                                                                          |                                                     |                |
| PR 001 CPR for Health Care Providers                     |                                     | 1  | College postsecondary program completers. WATC defines success as those graduates who have found placement in a job, the |                                                     |                |
| IO 150 Microbiolo                                        | •                                   | 5  |                                                                                                                          | rolled in advanced study.                           | ii a job, tile |
| SY 101 General P                                         | , ,,                                | 3  | •                                                                                                                        | s contacted in follow-up study                      | 22             |
| OC 101 Principles                                        |                                     | 3  | Placement rate                                                                                                           | o contacted in relient up study                     | 100%           |
| NG 101 Composit                                          |                                     | 3  | r lacciment rate                                                                                                         |                                                     | 10070          |
| ITH 112 College Al                                       | •                                   | 3  |                                                                                                                          | Wages                                               |                |
| PH 101 Public Spo                                        | eaking                              | 3  | BLS Data Source                                                                                                          | e: Bureau of Labor Statistics (2012); Mea           | in Wages of    |
| OR                                                       |                                     |    |                                                                                                                          | ion in Wichita, KS. WATC does not guar              | •              |
| •                                                        | nal Communication                   |    | below wages.                                                                                                             |                                                     |                |
| otal                                                     |                                     | 67 | Annually                                                                                                                 | Hourly                                              |                |
|                                                          |                                     |    |                                                                                                                          |                                                     |                |

\$20.09 \$41,800

<sup>\*</sup>Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Coach for details. Visit watc.edu/checklist for program admission requirements.



WATC > Welding, AAS

## Welding, AAS Curriculum

| CR     | N.   | Course Name                       | Credits  |
|--------|------|-----------------------------------|----------|
| Requ   | ired | Technical Courses                 |          |
| ORI    | 005  | Manufacturing Orientation         | 0        |
| AVC    | 110  | Safety/OSHA 10                    | 1        |
| AVC    | 112  | Blueprint Reading                 | 2        |
| CWG    | 103  | Print Reading II/Welding          | 1        |
| CWG    | 110  | Welding Applications              | 4        |
| CWG    | 115  | SMAW                              | 3        |
| CWG    | 116  | SMAW II                           | 4        |
| CWG    | 120  | GMAW                              | 3        |
| CWG    | 121  | GMAW II                           | 4        |
| CWG    | 125  | GTAW                              | 3        |
| CWG    | 126  | GTAW II                           | 4        |
| CWG    | 141  | Oxy Acetylene Welding & Cutting   | 2        |
| CWG    | 145  | Fabrication & Design 2            | 2        |
| CWG    | 149  | Materials & Testing               | 2        |
| PVD    | 105  | Global Professional Standards     | 2        |
| Requ   | ired | Electives (minimum of 4 credits r | equired) |
| CWG    | 242  | SMAW D1.1 Qualification           | 4        |
| CWG    | 243  | GMAW D.1.1 Qualification          | 4        |
| CWG    | 250  | API 1104 Qualification            | 4        |
| Electi | ives | (minimum of 4 credits required)   |          |
| MCD    | 101  | Introduction to CAD I             | 3        |
| MCD    | 102  | Introduction to CAD II            | 2        |
| MMG    | 142  | Manual Lathes                     | 6        |
| MMG    | 126  | Machining 2                       | 3        |
| DIS    | 150  | Directed Individual Studies       | 4        |
|        |      | If not taken for 1st elective     |          |
|        |      | SMAW D1.1 Qualification           | 4        |
|        |      | GMAW D.1.1 Qualification          | 4        |
| CWG    | 250  | API 1104 Qualification            | 4        |
|        |      | General Education Courses         |          |
| CED    | 115  | Computer Applications             | 3        |
|        |      | Composition I                     | 3        |
| MTH    | 112  | College Algebra                   | 3        |
| SPH    | 101  | Public Speaking                   | 3        |
|        |      | OR                                |          |
| SPH    |      | Interpersonal Communication       |          |
| PSY    | 101  | General Psychology                | 3        |
| soc    | 101  | OR<br>Principles of Sociology     |          |
| 300    | 101  | Timolpies of Sociology            |          |

#### Start Dates

August 2014 October 2014 January 2015 March 2015 June 2015 June 2015

#### Location

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

|          | Costs*      |
|----------|-------------|
| Tuition  | \$8,316.00  |
| Fees     | \$1,829.00  |
| Lab Fees | \$3,161.00  |
| TOTAL    | \$13,306.00 |
|          |             |

\*Cost does not include online fees, books or tools.

Financial Assistance may be available to those who qualify.

#### Success Rate

This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical
College postsecondary program completers. WATC defines success as those graduates who have found placement in a job, the military or are enrolled in advanced study.

Eligible graduates contacted in follow-up study

13
Placement rate

85%

#### Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

| Annually | Hourly  |
|----------|---------|
| \$41,130 | \$19.27 |

Total 60

\*Some courses may have a prerequisite in addition to the classes listed above. Please <u>contact an Academic Coach</u> for details. Visit <u>watc.edu/checklist</u> for program admission requirements.



WATC > Welding, TC

## Welding, TC

| CR    | N Course Name                        | Credits            |
|-------|--------------------------------------|--------------------|
| Requ  | ired Technical Courses               |                    |
| ORI   | 005 Manufacturing Orientation        | 0                  |
| AVC   | 110 Safety/OSHA 10                   | 1                  |
| AVC   | 112 Blueprint Reading                | 2                  |
| CWG   | 103 Print Reading II/Welding         | 1                  |
| CWG   | 110 Welding Applications             | 4                  |
| CWG   | 115SMAW                              | 3                  |
| CWG   | 116SMAW II                           | 4                  |
| CWG   | 120 GMAW                             | 3                  |
| CWG   | 121 GMAW II                          | 4                  |
| CWG   | 125 GTAW                             | 3                  |
| -     | 126 GTAW II                          | 4                  |
|       | 141 Oxy Acetylene Welding & Cutting  |                    |
| CWG   | 145 Fabrication & Design 2           | 2                  |
| CWG   | 149 Materials & Testing              | 2                  |
| PVD   | 105 Global Professional Standards    | 2                  |
| Requ  | ired General Education Courses       |                    |
| CED   | 101 Computer Essentials              | 2                  |
| MTH   | 020 Math Fundamentals                | 3                  |
| SPH   | 101 Public Speaking                  | 3                  |
|       | OR                                   |                    |
| SPH   | 111 Interpersonal Communication      |                    |
| Total |                                      | 45                 |
| *Some | e courses may have a prerequisite in | addition to the cl |

\*Some courses may have a prerequisite in addition to the classes listed above. Please <u>contact an Academic Coach</u> for details. Visit <u>watc.edu/checklist</u> for program admission requirements.

#### Start Dates

August 2014 October 2014 January 2015 March 2015 June 2015 June 2015

#### Location

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

|          | Costs      |  |
|----------|------------|--|
| Tuition  | \$4,541.00 |  |
| Fees     | \$1,328.00 |  |
| Lab Fees | \$3,495.00 |  |
| TOTAL    | \$9,365.00 |  |
|          |            |  |

\*Cost does not include online fees, books or tools.

Financial Assistance may be available to those who qualify.

#### Success Rate

This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical College postsecondary program completers. WATC defines success as those graduates who have found placement in a job, the military or are enrolled in advanced study.

Eligible graduates contacted in follow-up study

13

Placement rate

85%

#### Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$41,130 \$19.27



WATC > Gas Metal Arc Welding, COC

## Gas Metal Arc Welding, COC

| CRN                                | Course Name           | Credits |
|------------------------------------|-----------------------|---------|
| Required Tech                      | nical Courses         |         |
| ORI 005 Manufa                     | acturing Orientation  | 0       |
| AVC 110 Safety                     | OSHA 10               | 1       |
| AVC 112Bluepr                      | int Reading           | 2       |
| CWG120GMAW                         | 1                     | 3       |
| CWG121GMAW                         | / II                  | 4       |
| PVD 105 Global                     | Professional Standard | s 2     |
| Required General Education Courses |                       |         |
| MTH 020 Math F                     | undamentals           | 3       |
| Total                              |                       | 15      |

<sup>\*</sup>Some courses may have a prerequisite in addition to the classes listed above. Please <u>contact an Academic Coach</u> for details. Visit <u>watc.edu/checklist</u> for program admission requirements.

#### Start Dates

August 2014 October 2014 January 2015 March 2015 June 2015 June 2015

#### Location

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

|          | Costs*     |
|----------|------------|
| Tuition  | \$1,426.00 |
| Fees     | \$443.00   |
| Lab Fees | \$788.00   |
| TOTAL    | \$2,657.00 |
|          |            |

<sup>\*</sup>Cost does not include online fees, books or tools.

Financial Assistance may be available to those who qualify.

#### Success Rate

This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical College postsecondary program completers. WATC defines success as those graduates who have found placement in a job, the military or are enrolled in advanced study.

Eligible graduates contacted in follow-up study 13
Placement rate 85%

#### Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$41,130 \$19.27



WATC > Gas Tungsten Arc Welding, COC

### Gas Tungsten Arc Welding, COC January 2015 March 2015

### Curriculum

| CRI   | N Course Name                  | Credits |
|-------|--------------------------------|---------|
| Requi | red Technical Courses          |         |
| ORI ( | 005 Manufacturing Orientation  | 0       |
| AVC   | 110 Safety/OSHA 10             | 1       |
| AVC   | 112 Blueprint Reading          | 2       |
| CWG   | 125 GTAW                       | 3       |
| CWG   | 126 GTAW II                    | 4       |
| PVD   | 105 Global Professional Standa | ards 2  |
| Requi | red General Education Cour     | rses    |
| MTH ( | 020 Math Fundamentals          | 3       |
| Total |                                | 15      |

<sup>\*</sup>Some courses may have a prerequisite in addition to the classes listed above. Please contact an Academic Coach for details. Visit watc.edu/checklist for program admission requirements.

#### Start Dates

August 2014 October 2014 June 2015 June 2015

#### Location

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

|                        | Costs*                  |
|------------------------|-------------------------|
| Tuition                | \$1,426.00              |
| Fees                   | \$443.00                |
| Lab Fees               | \$721.00                |
| TOTAL                  | \$2,590.00              |
| *Cost does not include | anlina faca, backa ar t |

Cost does not include online fees, books or tools.

Financial Assistance may be available to those who qualify.

#### Success Rate

This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical College postsecondary program completers. WATC defines success as those graduates who have found placement in a job, the military or are enrolled in advanced study.

Eligible graduates contacted in follow-up study 13 Placement rate 85%

#### Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$41,130 \$19.27



WATC > Shielded Metal Arc Welding, COC

## Shielded Metal Arc Welding, COC

### Curriculum

| CRN                                | Course Name            | Credits |
|------------------------------------|------------------------|---------|
| Required Tec                       | hnical Courses         |         |
| ORI 005 Manu                       | ufacturing Orientation | 0       |
| AVC 110 Safe                       | ty/OSHA 10             | 1       |
| AVC 112Blue                        | print Reading          | 2       |
| CWG115SMA                          | W                      | 3       |
| CWG116SMA                          | W II                   | 4       |
| PVD 105 Glob                       | al Professional Standa | ards 2  |
| Required General Education Courses |                        |         |
| MTH 020 Math                       | Fundamentals           | 3       |
| Total                              |                        | 15      |

<sup>\*</sup>Some courses may have a prerequisite in addition to the classes listed above. Please <u>contact an Academic Coach</u> for details. Visit <u>watc.edu/checklist</u> for program admission requirements.

#### Start Dates

August 2014 October 2014 January 2015 March 2015 June 2015 June 2015

#### Location

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

|                                                                                                                    | Costs*     |
|--------------------------------------------------------------------------------------------------------------------|------------|
| Tuition                                                                                                            | \$1,426.00 |
| Fees                                                                                                               | \$443.00   |
| Lab Fees                                                                                                           | \$822.00   |
| TOTAL                                                                                                              | \$2,691.00 |
| *Cost does not include online fees, books or tools.<br>Financial Assistance may be available to those who qualify. |            |

#### Success Rate

This chart contains the results of the one-year follow-up study conducted of 2013 Wichita Area Technical College postsecondary program completers. WATC defines success as those graduates who have found placement in a job, the military or are enrolled in advanced study.

Eligible graduates contacted in follow-up study 13

Placement rate 85%

#### Wages

BLS Data Source: Bureau of Labor Statistics (2012); Mean Wages of selected occupation in Wichita, KS. WATC does not guarantee the below wages.

Annually Hourly \$41,130 \$19.27



TECHNICAL COLLEGE

### **COURSE DESCRIPTIONS**



#### **ACC 105 Fundamentals of Accounting**

3 Cr Hrs

Designed for students who want a working knowledge of accounting, but not to the extent as a person working primarily in the accounting field. Although the basic accounting principles are learned and applied, the course, in comparison to Principles of Accounting I, covers a smaller amount of material at a somewhat slower pace. Recommended for students with no previous accounting background.

### ACC 130 Managerial Accounting

3 Cr Hrs

Studies management tools for business decision making, including 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, executing and controlling a business enterprise.

**Prerequisite:** Minimum grade of "C" or better in ACC 170 Principles of Accounting II

### ACC 160 Principles of Accounting I

3 Cr Hrs

This course is designed to help the students develop a basic understanding of accounting theory, concepts and procedures. It will provide a foundation for further study for the student seeking a career in accounting or business administration or for the student entering into the occupational field.

**Prerequisite:** Minimum grade of "C" or better in ACC 105 Fundamentals of Accounting or consent from the dean

#### **ACC 170 Principles of Accounting II**

3 Cr Hrs

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

**Prerequisite:** Minimum grade of "C" or better in ACC 160 Principles of Accounting I

### ACP 100 Introduction to Coatings & Paint Technology

3 Cr Hrs

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

**Prerequisite:** AVC100 and AVC101 or concurrent

#### **ACP 101 Surface Preparation & Coatings**

4 Cr Hrs

This course is a study of surface preparation from various coating and painting applications on all interior and exterior aircraft components. The content includes safety procedures including

hazardous waste, surface preparations techniques, material application techniques and effectively using industry based technologies.

**Prerequisite:** ACP100

### ACP 102 Performance & Durability of Coatings

3 Cr Hrs

The objective of this course is to discuss facts and findings affecting performance and permanence of coatings. Topics include: methods of enhancing durability and permanence, properties and selection of raw materials processes leading to robust coatings, service – life prediction, and coating evaluation.

**Prerequisite:** ACP100

## ACP 103 Color Technology

3 Cr Hrs

This course is a study of the fundamentals of visual color match evaluation and of color measurement for industrial color control. Students utilize industry appropriate technologies on projects that demonstrate proper lighting, observe testing, objective terminology for color difference and determination of tolerances. Students analyze measurement date of the same industrial sample of study correlation of visual to measured results.

**Prerequisite:** ACP100

#### **ACP 104 Specialized Coating Processes**

3 Cr Hrs

This course is a study in special coatings for aerospace structures. Topics include mixing, application and curing coating materials, environmental effects of coating materials and general and hazardous material handling safety. The course also covers equipment used in these processes.

**Prerequisite:** ACP100 and 101

#### ACP 105 Specialized Detailing

3 Cr Hrs

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

Prerequisite: ACP100 101 and103

#### ACP 106 Aerospace Coatings & Materials

3 Cr Hrs

This course covers advanced technologies for coating materials and applications. Topics include: coating technologies that address aesthetics, durability, and environmental issues.

Prerequisite/Core requisite: ACP100 Introduction to Coatings & Paint Technology

**Prerequisite:** ACP100 101 and 102

## ACP 107 Aerospace Program Management

3 Cr Hrs

This course will introduce basic program management skills and techniques. Topics covered include: role of project management, communication, interpersonal skills, schedule management,

interfacing with other units, project management software use, compliance reporting, and risk management.

Prerequisite: ACP100, 101, 103

### ACP 111 Technical Co-Operative Project

4 Cr Hrs

Students will work on a part-time basis in a job directly related to applied technologies. The employer and supervising instructor will evaluate students' progress. Upon course completion, students will be able to apply skills and knowledge in an employment setting. **Prerequisite:** ACP 100,101,102,103,104,105,106,107

#### **ACP 115 Introduction to Airbrush**

3 Cr Hrs

This course is designed as an introduction to airbrushing. The ability to draw is not mandatory, patience is helpful. Topics covered in this class include a brief history and structure of the airbrush, comparing types and uses of different models and proper cleaning and managing of airbrush equipment. Instruction on the proper triggering and holding of the airbrush, control exercises and various techniques will be addressed.

#### **ACP 120 Intermediate Airbrush I**

3 Cr Hrs

This course deals with promoting advanced technique skills that have been implemented in the introduction airbrush course and building a student portfolio. Students will have both required and student initiated subject matters in this course.

**Prerequisite:** ACP 115

#### **ACP 125 Intermediate Airbrush II**

3 Cr Hrs

This course deals with the continued progression of advance technique skills that have been implemented in previous airbrush courses and building a student portfolio. Students will have both required technique projects and student initiated subject matter in this course. **Prerequisite:** ACP 120

#### ACP 160 Advanced Airbrush

3 Cr Hrs

This course deals with refining advance technique skills that have been implemented in previous airbrush courses and building a student portfolio. Students will have both required technique projects and student initiated subject matters in this course.

**Prerequisite:** ACP 125

## ACR 101 Principles & Practices of Refrigeration

3 Cr Hrs

Introduces the use of refrigeration tools, materials and procedures needed to install, repair and service refrigeration systems. Topics include refrigeration tools; piping practices; service valves; leak testing; refrigerant recovery, recycling and reclamation; evacuation; charging; and safety.

Prerequisite: ACR112 HVAC Fundamentals

#### **ACR 107 Air Conditioning Systems**

Introduces fundamental theory and techniques to identify major components and functions of air conditioning systems. Instruction is given on types of air conditioning systems and use of instrumentation. Topics include: types of ACR systems, heat load calculations, properties of air, psychometrics, duct design, air filtrations, and safety principles.

Prerequisite: ACR 101 Principles & Practices of Refrigeration and ACR 115 Electricity & Electronics for the HVACR Service Technician.

#### ACR 111 Heat Pumps & Related Systems

4 Cr Hrs

Provides instruction on the principles, application and operation of a residential heat pump system. Topics include installation procedures, servicing procedures, electrical components, geothermal ground source energy supplies, dual fuel, troubleshooting, valves and safety. **Prerequisite:** ACR 101 Principles & Practices of Refrigeration and ACR 115 Electricity & Electronics for the HVACR Service Technician.

#### **ACR 112 HVAC Fundamentals**

4 Cr Hrs

Introduce basic concepts and theories of refrigeration. Topics include: the laws of thermodynamics, pressure and temperature relationships, heat transfer, refrigerant identification, the refrigeration cycle, and safety.

ACR 113 Electrical Fundamentals 3 Cr Hrs

Provides instruction in identifying, installing, and testing commonly used electrical components in an air conditioning system. Topics include: pressure switches, overload devices, transformers, magnetic starters, other commonly used controls, diagnostic techniques, installation procedures, and safety.

#### ACR 114 Heating System Fundamentals

3 Cr Hrs

Introduces principles of combustion and service requirements for gas heating systems. Topics include service procedures, electrical controls, piping, gas valves, venting, code requirements, principles of combustion and safety.

Prerequisite: ACR101 Principles & Practices of Refrigeration, ACR112 HVAC Fundamentals, ACR113 Electrical Fundamentals and ACR115 Electricity & Electronics for the HVACR Service Technician.

## ACR 115 Electricity & Electronics for the HVACR Service

5 Cr Hrs

#### **Technician**

Provides instruction in identifying, installing, and testing commonly used electrical components in an air conditioning system. Topics include: pressure switches, overload devices, transformers, magnetic starters, other commonly used controls, diagnostic techniques, installation procedures, and safety.

**Prerequisite:** ACR113 Electrical Fundamentals

#### ACR 120 Building Control Systems I

Provides instruction on the installation and service of residential air conditioning systems, as well as basic building controls. Topics include installation procedures, service, split systems, add-on systems, packaged systems and safety.

**Prerequisite:** ACR101 Principles & Practices of Refrigeration, ACR107 Heat Pumps & Related Systems, and ACR115 Electricity & Electronics for the HVACR Service Technician.

ACR 126 EPA 608 1 Cr Hr

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).

#### ACR 130 HVAC Design

4 Cr Hrs

This course discusses heat energy, conditions of human comfort, psychometric chart and plotting various air conditions. Calculations of heat transfer into and out of a residential structure will be instructed using terms, concepts, measurements and calculations of moving air. This course is designed to develop and exercise the student's ability to perform heat loss and gain calculations. **Prerequisite:** ACR101 Principles & Practices of Refrigeration, ACR115 Electricity & Electronics for the HVACR Service Technician and ACR120 Building Control Systems I

## ACR 135 Internship in HVACR

5 Cr Hrs

Students participate in an industry-related assignment associated with the heating, ventilation, air conditioning and refrigeration systems. All work assignments must be approved by a faculty advisor.

**Prerequisite:** ACR111 Heat Pumps & Related Systems and ACR130 HVAC Design

#### **ACR 140 Sheet Metal**

3 Cr Hrs

Upon successful completion of this course, the student should be able to identify the components, equipment, and operation for sheet metal layout and fabrication. The patterns will be fabricated and joined into a line of fittings. This gives the most complete test of pattern accuracy and also provides the experience needed by a competent layout person. The student will be required to wear safety glasses.

## AER 106 Aerospace Manufacturing Tooling Orientation 1 Cr Hrs

This course provides an overview of the Tooling safety hazards, traits employers value, various roles and responsibilities within advanced manufacturing teams and what elements are necessary to make a manufacturing company successful.

**Prerequisite:** Completion of MTH 020 and Aerospace Manufacturing Core Certification courses (AVC102, AVC103, AVC104 AVC105, AVC107, AVC110, AVC112) and AVC120, AVC125, AVC135

#### **AER 111 Tap and Die**

This course provides knowledge and technical skills on taps and dies. Topics include 60 degree thread form, common fastener thread series and markings on taps. The student will learn the process of hand tapping, the process of repairing a thread with a threading die and the process of installing a threaded insert.

**Prerequisite:** Completion of MTH020 and Aerospace Manufacturing Core Certification courses (AVC102, AVC103, AVC104 AVC105, AVC107, AVC110, AVC112) and AVC120, AVC125, AVC135, AVC145, AER106

#### **AER 115 Aerostructures Assembly**

6 Cr Hrs

Students will master the techniques associated with aerospace mechanical assembly. Topics include the identification, installation and removal of fasteners, sealant applications, component assembly, wing structures, fuselage structures, curved surfaces, and repair techniques. Students learn in an environment which combines interactive online delivery of theoretical content with hands on application in a state of the art assembly laboratory.

**Prerequisite:** Completion of MTH020 and Aerospace Manufacturing Core Certification courses (AVC 102, AVC103, AVC104 AVC105, AVC107, AVC 108, AVC 110, AVC 112) and AVC120, AVC125, AVC135, AVC140, AVC145

## **AER 116 Hand and Power Tools for Aerospace Tooling** 1 Cr Hrs

This course provides technical knowledge of hand and power tools used in Aerospace manufacturing tooling. Topics include files, reamers, lapping tools, hammers, punches, chisels, pliers, scribes, drill blocks, die grinders, disc grinders and magnetic drills.

**Prerequisite:** Completion of AER140, Aerospace Manufacturing Core Certification courses (AVC102, AVC103, AVC104, AVC105, AVC107, AVC108, AVC110, AVC112

#### **AER 126 Tooling Capstone**

4 Cr Hrs

This course provides the specific technical knowledge and skills necessary to utilize hand and power tools to create a drill jig. This course emphasizes the importance of critical features, the process of permanent assembly and the role of toolmakers in the manufacturing environment. Online interactive content supplements the hands-on experience in a state of art aerospace tooling laboratory.

**Prerequisite:** Completion of AER116

#### **AER 135 Quality Assurance Orientation**

I Cr Hrs

This course provides an overview of the Quality Assurance Program. The course includes an overview of the expectations of the program, potential safety hazards, traits employers value, various role and responsibilities within advanced manufacturing teams and what elements are necessary to make a manufacturing company successful.

**Prerequisite:** Completion of AVC135

#### **AER 140 Assembly Mechanic Orientation**

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

#### **AER 150 Assembly Overview I**

3 Cr Hrs

This course is designed to provide the student with a general overview of sheet metal and composites. Working in a hands-on setting, students will learn the basics of aircraft assembly while focusing on inspection techniques.

Prerequisite: AVC 100, AVC101, AVC102, AVC103, AVC106 - Completed with a C or better

#### AER 155 Aerospace Plumbing

2 Cr Hrs

This course is designed to develop basic theory and knowledge of aircraft fluid lines and fittings. Students will participate in hands on projects with an emphasis on inspection techniques used in the aviation industry.

**Prerequisite:** AVC135

#### **AER 165 Electrical Assembly Mechanic Orientation**

1 Cr Hrs

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

**Prerequisite:** AVC135

#### **AER 166 Electrical Hand Tools**

1 Cr Hrs

This course familiarizes the student with various hand tools and connectors used in the installation of electrical wiring in aerospace manufacturing.

**Prerequisite:** AER165

## AER 167 Basic Drilling & Riveting/Ground Stud Installation 2 Cr Hrs

This course familiarizes the student with power tools and acquired skills used in drilling a quality hole and installing driven fasteners. In conjunction with this procedure, Ground Studs will be installed and electrical resistance verified.

**Prerequisite:** AER165

#### **AER 168 Wire Installation Drawings**

1 Cr Hrs

This course familiarizes with the various drawings utilized in aerospace wire bundle installation, includes engineering drawing review, wire bundle installation paperwork and electrical production illustrations.

**Prerequisite:** AER165

#### **AER 169 Crimping & Cables**

This course familiarizes the student with specifications and skills required to strip insulation from wires, crimp connectors on wires, install connectors on coaxial cables, install connectors in plugs and manufacture a wire bundle according to a blueprint.

**Prerequisite:** AER165

#### AER 170 Fiber Optics for Aerospace

1 Cr Hrs

This course familiarizes the student with the advantages and disadvantages of the use of Fiber Optics in aircraft. Included are overviews how Fiber Optics works, manufacturing processes, handling of Fiber Optics and particulars of quality and safety.

**Prerequisite:** AER165

#### **AER 175 Wire Bundle Basics**

1 Cr Hrs

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

**Prerequisite:** AER168

#### AER 180 Soldering

1 Cr Hrs

The soldering course acquaints the student with the proper way to safely perform soldering procedures in aviation applications. The importance of correct procedures is emphasized as the student performs wire stripping along with various soldering and de-soldering operations.

**Prerequisite:** AER165

#### **AER 185 Wire Bundle Installation**

2 Cr Hrs

This course familiarizes with the requirements for wire bundle installation culminating in the installation of several wire bundles on a project board.

**Prerequisite:** AER165

#### ALH 101 Medical Terminology

3 Cr Hrs

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.

#### ALH 105 First Aid & CPR

3 Cr Hrs

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.

## **ALH 110 Principles of Nutrition**

3 Cr Hrs

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.

## ALH 130 Emergency Preparedness for Health Professionals 3 Cr Hrs

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

#### ALH 131 Diseases, Disorders & Diagnostic Procedures 2 Cr Hrs

Focuses on diseases and disorders by body systems that are frequently diagnosed and treated in the medical office setting. Performance of electrocardiographic and pulmonary function procedures is covered with return demonstration required.

**Prerequisite:** BIO100 Biology Review or equivalent and minimum grade of "C" or better in BIO150 Human Anatomy and Physiology

#### **ALH 155 Pharmacology for Allied Health**

3 Cr Hr

Focuses on knowledge and skills necessary for safe and therapeutic drug therapy. Emphasis is place on drug identification and classification, pharmacological actions, side effects, as well as the legal and ethical considerations of pharmacology.

Prerequisite: ALH101 Medical Terminology strongly recommended but not required

#### **AMT 105 Technical Mathematics**

2 Cr Hrs

This course is designed to provide the technical math principles required for the Airframe and/or Powerplant mechanic. Academic standard for passing this class is a minimum of 78 percent for the written and Lab project exams.

**Prerequisite:** Meet the criteria established by Part 147.31. The student will be given an assessment evaluation to determine if the student has the background that will most likely result in the successful completion of this course.

#### **AMT 107 Aircraft Drawings**

1 Cr Hr

This course is designed to develop theory and knowledge of blueprint reading skills with specific emphasis on Federal Aviation Administration Regulations that pertain to the Airframe and/or Powerplant mechanic. Academic standard for passing this class is a minimum of 78% for the written and Lab project exams.

**Prerequisite:** A Freshman level Prerequisite course for the skill classes in the Airframe and/or Powerplant programs.

## **AMT 108 Aircraft Coverings**

2 Cr Hrs

This course is designed to develop correct safety practices, comprehensive knowledge, and technical skills required to perform maintenance procedures relevant to aircraft coverings. The curriculum is designed to meet specific Federal Aviation Administration Regulations that pertain to Airframe Subjects #4 and #5. Academic standard for passing this class is a minimum of 78% for the written and Lab project exams.

**Prerequisite:** A Freshman level Prerequisite course for the skill classes in the Airframe and/or Powerplant programs.

AMT 109 Physics 2 Cr Hrs

This course is designed to develop the basic principles, fundamentals, and technical procedures of physics as they relate to the Airframe and/or Powerplant rating. Academic standard for passing this class is a minimum of 78 percent for the written and Lab project exams.

Prerequisite: Entrance requirements as established by FAR Part 147.31

#### **AMT 111 Materials & Processes**

4 Cr Hrs

This course is designed to develop correct and safe usage of aircraft hardware, heat treating processes, non-destructive inspection, and precision measurements with specific emphasis on Federal Aviation Administration Regulations that pertain to the Airframe and Powerplant mechanic. Academic standard for passing this class is a minimum of 78% for the written and Lab project exams.

**Prerequisite:** A Freshman level Prerequisite course for the skill classes in the Airframe and/or Powerplant programs.

#### 112 Assembly & Rigging

4 Cr Hrs

This course is designed to develop correct safety practices, comprehensive knowledge, and technical skills required to perform maintenance procedures relevant to aircraft Assembly and Rigging. The curriculum is designed to meet specific Federal Aviation Administration Regulations that pertain to the Airframe mechanic. Academic standard for passing this class is a minimum of 78% for the written and Lab project exams.

**Prerequisite:** Must have completed the general section or meet the criteria established by Part 147.31.

#### **AMT 113 Basic Electricity**

4 Cr Hrs

A course designed to provide the technical skills to apply the electrical and electronic principles required of the Airframe and/or Powerplant mechanic. Academic standard for passing this class is a minimum of 78% percent for the written and Lab project exams. **Prerequisite:** Meet the criteria established by Part 147.31.

#### **AMT 115 Weight & Balance**

2 Cr Hrs

This course is designed to calculate and apply aircraft weight and balance principles as required of the Airframe and/or Powerplant mechanic. Academic standard for passing this class is a minimum of 78 percent for the written and Lab project exams.

**Prerequisite:** A Freshman level Prerequisite course for the skill classes in the Airframe and/or Powerplant programs.

#### **AMT 116 Aircraft Instrument Systems**

1 Cr Hr

This course is designed to develop correct safety practices, comprehensive knowledge, and technical skills required to perform maintenance procedures relevant to aircraft instrument systems. The curriculum is designed to meet specific Federal Aviation Administration Regulations that pertain to Airframe Subjects #36 and #37. Academic standard for passing this class is a minimum of 78% for the written and Lab project exams.

**Prerequisite:** Must have completed the general section or meet the criteria established by Part 147.31.

#### AMT 117 Mechanics Privileges & Limitations

1 Cr Hr

This course is designed to develop basic theory and knowledge of Mechanic Privileges and Limitations with specific emphasis on Federal Aviation Administration Regulations that pertain to the Airframe and/or Powerplant rating. Academic standard for passing this class is a minimum of 78 percent for the written and Lab project exams.

**Prerequisite:** A Freshman level Prerequisite course for the skill classes in the Airframe and/or Powerplant programs.

#### AMT 119 Maintenance Publications, Forms & Records

2 Cr Hrs

This course is designed to develop basic theory and knowledge of maintenance publications, forms & records with specific emphasis on Federal Aviation Administration Regulations that

#### **AMT**

pertain to the Airframe and/or Powerplant rating. Academic standard for passing this class is a minimum of 78 percent for the written and Lab project exams. **Prerequisite:** Meet the criteria established by Part 147.31.

## 120 Airframe Inspection

3 Cr Hrs

This course is designed to develop correct safety practices, comprehensive knowledge, and technical skills required to perform maintenance procedures relevant to airframe inspection. The curriculum is designed to meet specific Federal Aviation Administration Regulations that pertain to Airframe Subject #28. Academic standard for passing this class is a minimum of 78% for the written and Lab project exams.

**Prerequisite:** Must have completed the general section or meet the criteria established by Part 147.31.

## AMT 123 Cleaning & Corrosion Control

1 Cr Hr

This course is designed to develop basic theory and knowledge of cleaning and corrosion control with specific emphasis on Federal Aviation Administration Regulations that pertain to the Airframe and/or Powerplant rating. Academic standard for passing this class is a minimum of 78 percent for the written and Lab project exams.

**Prerequisite:** A Freshman level Prerequisite course for the skill classes in the Airframe and/or Powerplant programs.

## **AMT 125 Fluid Lines & Fittings**

1 Cr Hr

This course is designed to develop basic theory and knowledge of aircraft fluid lines and fittings with specific emphasis on Federal Aviation Administration Regulations that pertain to Airframe and/or Powerplant mechanics. Academic standard for passing this class is a minimum of 78 percent for the written and Lab project exams.

**Prerequisite:** Meet the criteria established by Part 147.31. The student will be given an assessment evaluation to determine if the student has the background that will most likely result in the successful completion of this course.

## **AMT 127 Ground Operations & Service**

2 Cr Hrs

This course is designed to develop safe skills and technical knowledge in Ground Operation and Servicing procedures with special emphasis on Federal Aviation Administration Regulations that pertain to the Airframe and Powerplant mechanic. Academic standard for passing this class is a minimum of 78% for the written and Lab project exams.

**Prerequisite:** A Freshman level Prerequisite course for the skill classes in the Airframe and/or Powerplant programs.

#### **AMT 131 General Review & Test**

0 Cr Hr

Upon completion of the General curriculum this course is designed to prepare the student for the FAA Written, Oral and Practical exams.

## **AMT 136 Propellers**

4 Cr Hrs

This course is designed to develop correct safety practices, comprehensive knowledge, and the technical skills required for aircraft propeller maintenance procedures, with specific emphasis on Federal Aviation Administration Regulations that pertain to Powerplant Mechanic rating. Academic standard for passing this class is a minimum of 78 % (percent) for the written and Lab Project exams.

**Prerequisite:** Must have completed the General Section and/or meet the criteria established by Part 147.31.

#### 151 Aircraft Electrical Systems

6 Cr Hrs

This course is designed to develop correct safety practices, comprehensive knowledge, and technical skills required to perform maintenance procedures relevant to aircraft electrical systems. The curriculum is designed to meet specific Federal Aviation Administration Regulations that pertain to Airframe Subjects #48, #49, and #50. Academic standard for passing this class is a minimum of 78% for the written and Lab project exams.

**Prerequisite:** Must have completed the General section or meet the criteria established by FAR 147.31

#### AMT 153 Hydraulic & Pneumatic Power Systems

2 Cr Hrs

This course is designed to develop correct safety practices, comprehensive knowledge, and technical skills required to perform maintenance procedures relevant to hydraulic and pneumatic power systems. The curriculum is designed to meet specific Federal Aviation Administration Regulations that pertain to Airframe Subjects #30, #31, and #32. Academic standard for passing this class is a minimum of 78% for the written and Lab project exams

**Prerequisite:** Must have completed the General section or meet the criteria established by Part 147.31.

#### AMT 155 Aircraft Landing Gear Systems

4 Cr Hrs

This course is designed to develop correct safety practices, comprehensive knowledge, and technical skills required to perform maintenance procedures relevant to aircraft landing gear systems. The curriculum is designed to meet specific Federal Aviation Administration. Regulations that pertain to Airframe Subject #29. Academic standard for passing this class is a minimum of 78% for the written and Lab project exams.

**Prerequisite:** Must have completed the General section or meet the requirements of Part 147.31.

#### **AMT 159 Aircraft Fuel Systems**

2 Cr Hrs

This course is designed to develop correct safety practices, comprehensive knowledge, and technical skills required to perform maintenance procedures relevant to aircraft fuel systems. The curriculum is designed to meet specific Federal Aviation Administration Regulations that pertain to Airframe Subjects #41, #42, #43, #44, #45, #46, and #47. Academic standard for passing this class is a minimum of 78% for the written and Lab project exams.

**Prerequisite:** Must have completed the general section or meet the criteria established by Part 147.31.

#### **AMT 161 Fire Protection Systems**

1 Cr Hr

This course is designed to develop correct safety practices, comprehensive knowledge, and technical skills required to perform maintenance procedures relevant to fire protection systems. The curriculum is designed to meet specific Federal Aviation Administration Regulations that pertain to Airframe Subjects #54 and #55. Academic standard for passing this class is a minimum of 78% for the written and Lab project exams.

**Prerequisite:** Must have completed the general section or meet the criteria established by Part 147.31.

## 163 Ice & Rain Control Systems

<u> 1 Cr Hr</u>

This course is designed to develop correct safety practices, comprehensive knowledge, and technical skills required to perform maintenance procedures relevant to ice and rain control systems. The curriculum is designed to meet specific Federal Aviation Administration Regulations that pertain to Airframe Subject #53. Academic standard for passing this class is a minimum of 78% for the written and Lab project exams.

**Prerequisite:** Must have completed the general section or meet the criteria established by Part 147.31.

## **AMT 165 Cabin Atmosphere Control Systems**

2 Cr Hrs

This course is designed to develop correct safety practices, comprehensive knowledge, and technical skills required to perform maintenance procedures relevant to cabin atmosphere control systems. The curriculum is designed to meet specific Federal Aviation Administration Regulations that pertain to Airframe Subjects #33, #34, and #35. Academic standard for passing this class is a minimum of 78% for the written and Lab project exams.

**Prerequisite:** Must have completed the general section or meet the criteria established by Part 147.31.

#### **AMT 167 Aircraft Welding**

2 Cr Hrs

This course is designed to develop correct safety practices, comprehensive knowledge, and technical skills required to perform maintenance procedures relevant to airframe aircraft welding. The curriculum is designed to meet specific Federal Aviation Administration Regulations that pertain to the Airframe mechanic. Academic standard for passing this class is a minimum of 78% for the written and Lab project exams.

**Prerequisite:** A Freshman level Prerequisite course for the skill classes in the Airframe and/or Powerplant programs.

#### **AMT**

This course is designed to develop correct safety practices, comprehensive knowledge, and technical skills required to perform maintenance procedures relevant to communication and navigation systems. The curriculum is designed to meet specific Federal Aviation Administration Regulations that pertain to Airframe Subjects #38, #39, and #40. Academic standard for passing this class is a minimum of 78% for the written and Lab project.

**Prerequisite:** Must have completed General section or meet the criteria established by Part 147.31.

#### **AMT 173 Position & Warning Systems**

1 Cr Hr

This course is designed to develop correct safety practices, comprehensive knowledge, and technical skills required to perform maintenance procedures relevant to airframe position and warning systems. The curriculum is designed to meet specific Federal Aviation Administration Regulations that pertain to the Airframe mechanic. Academic standard for passing this class is a minimum of 78% for the written and Lab project exams.

**Prerequisite:** Must have completed the general section or meet the criteria established by Part 147.31.

#### 177 Wood Structures

1 Cr Hr

This course is designed to develop correct safety practices, comprehensive knowledge, and technical skills required to perform maintenance procedures relevant to airframe wood structures. The curriculum is designed to meet specific Federal Aviation Administration Regulations that pertain to the Airframe mechanic. Academic standard for passing this class is a minimum of 78% for the written and Lab project exams.

**Prerequisite:** A Freshman level Prerequisite course for the skill classes in the Airframe and/or Powerplant programs.

## AMT 179 Aircraft Sheetmetal & Non-Metallic Structures 8 Cr Hrs

This course is designed to develop correct safety practices, comprehensive knowledge, and technical skills required to perform maintenance procedures relevant to airframe aircraft sheet metal and non-metallic structures. The curriculum is designed to meet specific Federal Aviation Administration Regulations that pertain to the Airframe mechanic. Academic standard for passing this class is a minimum of 78% for the written and Lab project exams.

**Prerequisite:** A Freshman level Prerequisite course for the skill classes in the Airframe and/or Powerplant programs.

#### **AMT 183 Aircraft Finishes**

2 Cr Hrs

This course is designed to develop correct safety practices, comprehensive knowledge, and technical skills required to perform application and maintenance procedures relevant to aircraft finishes. The curriculum is designed to meet specific Federal Aviation Administration Regulations that pertain to Airframe Subjects #6, #7, #8, and #9. Academic standard for passing this class is a minimum of 78% for the written and Lab project exams.

#### **AMT**

**Prerequisite:** A Freshman level Prerequisite course for the skill classes in the Airframe and/or Powerplant programs.

#### **AMT 186 Airframe Review & Test**

0 Cr Hrs

Upon completion of the Airframe curriculum this course is designed to prepare the student for the FAA Written. Oral and Practical exams.

## **AMT 200 Reciprocating Engines**

9 Cr Hrs

This course is designed to develop safety practices, comprehensive knowledge and the technical skills that are required for maintenance and operations of reciprocating engines, with specific emphasis on Federal Aviation Administration Regulations that relate to the Powerplant Mechanic rating. Academic standard for passing this class is a minimum of 78 % (percent) for the written and Lab Project exams.

**Prerequisite:** Must have completed the General Section and/or meet the criteria established by Part 147.31.

#### **AMT 202 Engine Inspection**

2 Cr Hrs

This course is designed to develop correct safety practices, comprehensive knowledge, and technical skills required to perform maintenance procedures relevant to aircraft engine inspection. The curriculum is designed to meet specific Federal Aviation Administration

Regulations that pertain to the Aircraft Powerplant Mechanic rating. Academic standard for passing this class is a minimum of 78 percent for the written and Lab project exams. **Prerequisite:** Must have completed the General Section and/or meet the criteria established by Part 147.31.

#### AMT 203 Powerplant Ignition Systems

3 Cr Hrs

This course is designed to develop correct safety practices, comprehensive knowledge, and technical skills required to perform maintenance procedures relevant to aircraft engine ignition and starting systems. The curriculum is designed to meet specific Federal Aviation Administration Regulations that pertain to the Aircraft Powerplant Mechanic rating. Academic standard for passing this class is a minimum of 78 percent for the written and Lab project exams. **Prerequisite:** Must have completed the General section or meet the criteria established by Part 147.31.

#### **AMT 204 Engine Fuel Systems**

<u> 1 Cr Hr</u>

This course is designed to develop correct safety practices, comprehensive knowledge, and technical skills required to perform maintenance procedures relevant to aircraft fuels and fuel systems. The curriculum is designed to meet specific Federal Aviation Administration Regulations that pertain to the Aircraft Powerplant Mechanic rating. Academic standard for passing this class is a minimum of 78 percent for the written and Lab project exams.

Prerequisite: Must have completed the General Section and/or meet the criteria established by Part 147.31.

#### **AMT 206 Auxiliary Power Units**

<u> 1 Cr Hr</u>

This course is designed to develop correct safety practices, comprehensive knowledge and technical skills required to perform maintenance procedures relevant to auxiliary power units. The curriculum is designed to meet specific Federal Aviation Administration Regulations that pertain to Powerplant subject #41. Academic standard for passing this class is a minimum of 78% for the lab projects and written exams.

#### **AMT 207 Fuel Metering Systems**

4 Cr Hrs

This course is designed to develop correct safety practices, comprehensive knowledge, and technical skills required to perform maintenance procedures relevant to aircraft fuel metering systems. The curriculum is designed to meet specific Federal Aviation Administration Regulations that pertain to the Aircraft Powerplant Mechanic rating. Academic standard for passing this class is a minimum of 78 percent for the written and Lab project exams.

Prerequisite: Must have completed the General Section and/or meet the criteria established by Part 147.31.

#### **AMT 208 Engine Electrical Systems**

2 Cr Hrs

This course is designed to develop correct safety practices, comprehensive knowledge, and technical skills required to perform maintenance procedures relevant to aircraft engine electrical systems. The curriculum is designed to meet specific Federal Aviation Administration

Regulations that pertain to the Aircraft Powerplant Mechanic rating. Academic standard for passing this class is a minimum of 78 percent for the written and lab project exams.

**Prerequisite:** Must have completed the General Section and/or meet the criteria established by Part 147.31.

#### **AMT 211 Powerplant Cooling Systems**

1 Cr Hr

This course is designed to develop correct safety practices, comprehensive knowledge, and technical skills required to perform maintenance procedures relevant to Powerplant cooling systems. The curriculum is designed to meet specific Federal Aviation Administration Regulations that pertain to the Aircraft Powerplant Mechanic rating. Academic standard for passing this class is a minimum of 78% for the written and Lab project exams.

**Prerequisite:** Must have completed the General Section and/or meet the criteria established by Part 147.31.

## AMT 213 Powerplant Lubrication Systems

3 Cr Hrs

This course is designed to develop correct safety practices, comprehensive knowledge, and technical skills required to perform maintenance procedures relevant to aircraft lubrication systems. The curriculum is designed to meet specific Federal Aviation Administration Regulations that pertain to the Aircraft Powerplant Mechanic rating. Academic standard for passing this class is a minimum of 78% for the written and Lab project exams.

**Prerequisite:** Must have completed the General Section and/or meet the criteria established by Part 147.31.

#### **AMT 217 Induction Systems**

1 Cr Hr

This course is designed to develop correct safety practices, comprehensive knowledge, and technical skills required to perform maintenance procedures relevant to engine Induction & Airflow systems. The curriculum is designed to meet specific Federal Aviation Administration Regulations that pertain to the Aircraft Powerplant Mechanic rating. Academic standard for passing this class is a minimum of 78% for the written and Lab project exams.

**Prerequisite:** Must have completed the General Section and/or meet the criteria established by Part 147.31.

#### **AMT 219 Powerplant Exhaust Systems**

2 Cr Hrs

This course is designed to develop correct safety practices, comprehensive knowledge, and technical skills required to perform maintenance procedures relevant to aircraft engine Exhaust and Reverser systems. Academic standard for passing this class is a minimum of 78 percent for the written and Lab project exams.

**Prerequisite:** Must have completed the General Section and/or meet the criteria established by Part 147.31.

## **AMT 223 Powerplant Fire Protection Systems**

1 Cr Hr

This course is designed to develop technical knowledge and skills required to operate and service aircraft engine fire protection systems with specific emphasis on the Federal Aviation

Administration Regulations that pertain to the Powerplant mechanic. Academic standard for passing this class is a minimum of 78 percent for the written and lab project exams.

**Prerequisite:** Must have completed the General Section and/or meet the criteria established by Part 147.31.

#### AMT 225 Powerplant Instrument Systems

1 Cr Hr

This course is designed to develop correct safety practices, comprehensive knowledge, and technical skills required to perform maintenance procedures relevant to aircraft engine instrument systems. The curriculum is designed to meet specific Federal Aviation Administration Regulations that pertain to the Aircraft Powerplant Mechanic rating.

**Prerequisite:** Must have completed the General Section and/or meet the criteria established by Part 147.31.

#### **AMT 227 Turbine Engines**

9 Cr Hrs

This course is designed to develop safety practices, comprehensive knowledge and the technical skills that are required for the maintenance and operation of aircraft turbine engines, with specific emphasis on Federal Aviation Administration Regulations that relate to the Powerplant Mechanic rating. Academic standard for passing this class is a minimum of 78 % (percent) for the written and Lab Project exams.

**Prerequisite:** Must have completed the General Section and/or meet the criteria established by Part 147.31

## AMT 231 Powerplant Test & Review

0 Cr Hrs

Upon completion of the Power plant curriculum this course is designed to prepare the student for the FAA Written, Oral and Practical exams.

## ART 100 Art Appreciation

3 Cr Hrs

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.

#### **AVC 102 Precision Instruments**

1 Cr Hrs

This course provides students with the knowledge and skills needed to utilize precision measurement tools in the manufacturing and aerospace environment. Students will learn to utilize the different types of tools, interpret the measurement results and apply those results to industry specific scenarios.

### AVC 103 Geometric Dimensioning & Tolerancing

1 Cr Hrs

Provides an understanding of the basic terms and principles of Geometric Dimensioning and Tolerancing. The course provides students with the skills and knowledge necessary to identify GD&T symbols and how to interpret those symbols. This course is taught using an interactive on line environment.

## AVC 104 Quality Control Concepts

1 Cr Hrs

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

#### AVC 105 Aircraft Familiarization

1 Cr Hrs

This course is designed to provide an introduction to the world of aviation. Using an interactive on line environment students will be introduced to basic aerospace concepts including the history of flight, principles of flight, and the role of regulation in the industry and the primary assemblies and structures of an airplane.

## AVC 107 Fundamentals for Aerospace Manufacturing 1 Cr Hrs

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

## AVC 108 Aircraft Systems & Components

4 Cr Hrs

This course is designed to provide the aviation student with an in-depth knowledge of the major systems and components of the aircraft. Using an interactive on line environment students will learn the operation of each of the major systems.

#### AVC 110 Safety/OSHA 10

1 Cr Hrs

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

#### **AVC 112 Blueprint Reading**

2 Cr Hrs

This course is an introduction to reading and interpreting blueprints. Topics include blueprint views, lines, dimensions and tolerances and blueprint symbols. Working in an interactive online environment students' learn a systematic approach to reading blueprints.

#### AVC 120 Introduction to Sealing

1 Cr Hr

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

## **AVC 125 Bonding and Grounding**

1 Cr Hr

This course provides an overview of electrical bonding and grounding theory, required tools and procedures and final quality control. Students learn using interactive online content.

#### **AVC 135 Hand Tools**

<u> 1 Cr Hr</u>

This course provides an introduction to the various hand tools used in aerospace industry. The course also introduces the student to several aerospace fasteners including temporary fasteners, bolts, and lock bolts, Hi-Lok and rivets.

## **AVC 140 Electrical Bonding and Grounding**

1 Cr Hr

This course provides the specific technical and manufacturing skills and knowledge required to prepare electrical bonding and grounding locations in the aerospace industry. The topics are presented online using interactive content.

#### **AVC 145 Power Island**

1 Cr Hr

This course provides the technical knowledge and skills necessary to operate power island equipment. Students are introduced to the equipment using interactive online course content.

#### **AVC 150 Human Factors**

1 Cr Hrs

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

#### **AVC 165 Technical Writing**

1 Cr Hrs

This course provides students with an overview of the process used to create effective technical documents. Topics include the three C's of good technical writing including clarity, conciseness and completeness, the five steps of creating successful documents, and the importance of accuracy.

#### **AVC 170 Conflict Resolution**

1 Cr Hrs

This course provides the basics of good communication skills. Topics include the different views of conflict, types of listening skills and techniques for how to be an effective communicator; different conflict management styles such as positional bargaining, collaborative approach and the interest based relational approach.

#### **AVT 101 Basic Electricity & Electronics**

3 Cr Hrs

This course is designed to introduce the student to the fundamental concepts of electricity and electronics that involve direct current (dc), including series and parallel resistive circuits, network analysis, and magnetism. Prerequisite: AVT 100.

This course is designed to introduce the student to the fundamental concepts of electricity and electronics that involve direct current (dc), including series and parallel resistive circuits, network analysis, and magnetism.

#### **AVT 102 Basic Electricity & Electronics Lab**

3 Cr Hrs

This course is designed as the laboratory component to the AVT 101 course and will provide students with hands on experience with shop grade test equipment while performing experiments using LabVolt Computer Aided Instructional Electrical/Electronics Training System. Laboratory experiments are conducted on pre-assembled boards maximizing student productivity and allowing increased instructor interaction and support.

Prerequisite: AVT101 Basic Electricity & Electronics or concurrent enrollment in AVT101 Basic Electricity & Electronics

#### **AVT 103 Introduction to Avionics**

3 Cr Hrs

Covers major phases of avionics from navigation, communication and surveillance to sophisticated systems using state-of-the-art sensors and computations. Procedures and practices are also presented. The intent is to give students and/or technicians an overview of the entire avionics field, not just a single airborne or ground system. An important role of avionics and aviation is the abbreviations and acronyms used in the aviation industry. These are introduced and emphasis is placed on the most commonly used in today's environment.

### **AVT 105 Avionics Systems & Troubleshooting**

2 Cr Hrs

This course is a study of aviation electronic equipment, with hands-on wiring and system testing. Emphasis will be placed on avionics system installation and the block diagrams of individual appliances. Complete design, wiring and installation of a common general aviation avionics suite is a requirement of the class. Upon completion of this course, the student will be able to understand the operation, testing and troubleshooting of general aviation avionics systems and wiring concepts.

#### AVT 106 Avionics Systems & Troubleshooting Lab

3 Cr Hrs

This course is an application of aviation electronic equipment, with hands-on wiring and system testing. Emphasis will be placed on avionics system installation and the block diagrams of individual appliances. Complete wiring of an Allied Signal Silver Crown avionics suite and a GPS unit is a requirement of the class. Upon completion of this course, the student will be able to understand the operation, testing and troubleshooting of general aviation avionics systems and wiring concepts.

#### **AVT 107 Basic Communications Electronics**

3 Cr Hrs

This course is designed to the fundamental concepts of electricity and electronics that involve alternating current (ac), capacitance, inductance, transformers, semi-conductor diodes, junction transistors, field effect transistors and operational amplifiers. 

<u>Prerequisite:</u> AVT101 Basic Electricity & Electronics

#### AVT 108 Wiring & Cannon Plug Lab

2 Cr Hrs

This course will provide the student instruction and practical lab exercises with the most common types of aircraft connectors and wiring systems utilized in today's aircraft. A part of the course

provides the student the opportunity to terminate, populate connectors and aircraft wiring assemblies.

**Prerequisite:** AVT 100 Technical Mathematics or the equivalent, AVT 101 Basic Electricity and Electronics, AVT 107 Basic Communication Electronics

\*For the Applied Science of Aviation Manufacturing program AVT100 Technical Mathematics, and AVT107 Basic Communication Electronics are not required

# AVT 110 Aircraft Electrical, Communication & Navigation 3 Cr Hrs Systems (Part 1)

Studies aircraft electrical, communication and navigation systems. Topics include install, check and service airframe electrical wiring, controls, switches, indicators and protective devices; inspect, check, troubleshoot, service and repair alternating and direct current electrical systems; repair and inspect aircraft electrical system components, crimp and splice wiring to manufacturer's specifications and repair pins and sockets of aircraft connectors; inspect, check and troubleshoot autopilot servos and approach coupling systems; inspect, check and service aircraft electronic communication and navigation systems including VHF passenger address interphones and static discharge devices, aircraft VOR, ILS LORAN, radar beacon transponders, flight management computers and GPWS; inspect and repair antenna and electronic equipment installations; and inspect, check and troubleshoot constant speed and integrated speed drive generators.

# AVT 111 Aircraft Electrical, Communication & Navigation 3 Cr Hrs Systems (Part 1) Lab

This course studies aircraft electrical, communication and navigation systems. Topics include install, check and service airframe electrical wiring, controls, switches, indicators and protective devices; inspect, check, troubleshoot, service and repair alternating and direct current electrical systems; repair and inspect aircraft electrical system components, crimp and splice wiring to manufacturer's specifications and repair pins and sockets of aircraft connectors; inspect, check and troubleshoot autopilot servos and approach coupling systems; inspect, check and service aircraft electronic communication and navigation systems including VHF passenger address interphones and static discharge devices, aircraft VOR, ILS LORAN, radar beacon transponders, flight management computers and GPWS; inspect and repair antenna and electronic equipment installations; and inspect, check and troubleshoot constant speed and integrated speed drive generators.

# AVT 112 Aircraft Electrical, Communication & Navigation 2 Cr Hrs Systems (Part 2)

This course studies aircraft electrical, communication and navigation systems. Topics include install, check and service airframe electrical wiring, controls, switches, indicators and protective devices; inspect, check, troubleshoot, service and repair alternating and direct current electrical systems; repair and inspect aircraft electrical system components, crimp and splice wiring to manufacturer's specifications and repair pins and sockets of aircraft connectors; inspect, check and troubleshoot autopilot servos and approach coupling systems; inspect, check and service

aircraft electronic communication and navigation systems including VHF passenger address interphones and static discharge devices, aircraft VOR, ILS LORAN, radar beacon transponders, flight management computers and GPWS; inspect and repair antenna and electronic equipment installations; and inspect, check and troubleshoot constant speed and integrated speed drive generators.

## AVT 113 Aircraft Electrical, Communication & Navigation 3 Cr Hrs Systems(Part 2) Lab

This course studies aircraft electrical, communication and navigation systems. Topics include install, check and service airframe electrical wiring, controls, switches, indicators and protective devices; inspect, check, troubleshoot, service and repair alternating and direct current electrical systems; repair and inspect aircraft electrical system components, crimp and splice wiring to manufacturer's specifications and repair pins and sockets of aircraft connectors; inspect, check and troubleshoot autopilot servos and approach coupling systems; inspect, check and service aircraft electronic communication and navigation systems including VHF passenger address interphones and static discharge devices, aircraft VOR, ILS LORAN, radar beacon transponders, flight management computers and GPWS; inspect and repair antenna and electronic equipment installations; and inspect, check and troubleshoot constant speed and integrated speed drive generators.

## AVT 115 Basic Communications Electronics Lab 3 Cr Hrs

This course is designed to help students increase their knowledge and acquire the hands-on skills to work in the avionics field and work toward a Federal Communications Commission general class radiotelephone license. Students develop the safety procedures and competencies needed to apply the principles of electronics that are required of avionics technicians. **Prerequisite:** AVT101 Basic Electricity & Electronics

## AVT 122 Certification Preparation II for NCATT 4 Cr Hrs

Helps student increase the knowledge and skills required to troubleshoot and repair practical electronics projects and prepares the student based upon these skills to be successful for the NCATT Certification testing.

## AVT 125 Digital Electronics Fundamentals 2 Cr Hrs

This course is designed to provide students with the concepts and terminology utilized in digital electronics. The student will be exposed to the most basic concepts of digital electronics to a wide variety of the fundamentals for circuits used in today's avionics equipment and aircraft switching circuits. The digital numbering system is studied and incorporates a part of the Technical Mathematics text book. Once an understanding of the numbering system is achieved the course proceeds to basic logic circuits such as Gates, Flip-flops, and Latches. Also discussed are the types of analog to digital (A/D) converters as well as multiplexing devices and counter circuits.

#### **AVT 126 Digital Electronics Fundamentals Lab**

2 Cr Hrs

This course is designed to provide students with the concepts and terminology utilized in digital electronics. The student will be exposed to the most basic concepts of digital electronics to a wide variety of the fundamentals for circuits used in today's avionics equipment and aircraft switching circuits. The digital numbering system is studied and incorporates a part of the Technical Mathematics text book. Once an understanding of the numbering system is achieved the course proceeds to basic logic circuits such as Gates, Flip-flops, and Latches. Also discussed are the types of analog to digital (A/D) converters as well as multiplexing devices and counter circuits.

## AVT 135 Advanced Analog & Digital Communications 2 Cr Hrs

This course introduces students to methods of modulation and their measurement and to the ARINC429 data bus system used to control and communicate with modern avionics devices. **Prerequisite:** AVT106 Avionics Systems & Troubleshooting Lab and concurrent enrollment in AVT136 Advanced Analog & Digital Communications Lab

## AVT 136 Advanced Analog & Digital Communications Lab 2 Cr Hrs

This lab course is the complement to AVT 135 and gives the student practical experience with common methods of signal modulation measurement. The student will also use standard ARINC429 test equipment to troubleshoot modern avionics equipment in both a laboratory and aircraft environment.

**Prerequisite:** AVT106 Avionics Systems & Troubleshooting Lab and concurrent enrollment in AVT136 Advanced Analog & Digital Communications Lab

B

#### BAF 105 Introduction to US Financial System

3 Cr Hrs

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

## **BIO 100 Biology Review**

<u> 1 Cr Hr</u>

This course is designed to help the students increase their knowledge concerning basic biological concepts. It is not intended to replace BIO110 Principles of Biology. Recommended for students planning to take BIO150 Human Anatomy & Physiology or BIO160 Microbiology but has not had a recent life science course, or students wishing to prepare for BIO110 Principles of Biology. This course is graded on a pass/fail scale. CHM110 Chemistry is recommended but not required.

## **BIO 110 Principles of Biology**

An introduction to the biological concepts included in the General Education Biology Core Competencies. This includes understanding the nature of science, levels of organization, bioenergetics, reproduction and inheritance and the mechanisms of change. Laboratory stresses the process of scientific investigation and observation of biological processes.

#### **BIO 120 Environmental Biology**

3 Cr Hrs

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

### **BIO 150 Human Anatomy & Physiology**

5 Cr Hrs

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.

**Prerequisite:** The student must complete one of the following, BIO 110 Principles of Biology, BIO 100 Biology Review, or successful completion of a life science lab class within the past five years. If student has taken a lab science class more than 5 years, the student will be required to enroll in BIO100 Biology Review

## **BIO151 Anatomy and Physiology Enhancement**

1Cr Hr

This course provides for an elaboration of either the anatomy or the physiology of foundation topics presented in BIO150 Human Anatomy and Physiology. Topics can include cell structure and function, muscular system, nervous system, endocrine system, immune system, cardiovascular system, respiratory system, digestive systems and/or urogenital system. This course is graded on a pass/fail scale and no letter grade will be given. Passing credit will be awarded when the student satisfactorily completes a minimum of 75% of the content assigned for this course.

**Note:** Core content may vary by semester as dictated by student learning assessments. Additional topic lists may be distributed each semester as instructors are not restricted from adding topics for enrichment.

**Prerequisite:** Minimum grade of "C" or better in BIO150 Human Anatomy and Physiology or an equivalent 5 credit hour course.

### **BIO 160 Microbiology**

<u> 5 Cr Hrs</u>

An introduction to microorganisms and their morphology, physiology, genetics and distribution. Emphasis is placed on the relationship of microorganisms to disease and the human immune responses. Techniques involving staining, culturing, identifying and biochemistry are considered in laboratory.

**Prerequisite:** The student must successfully completed one of the following: BIO110 Principles of Biology, BIO110 Biology Review or successful completion of a life science lab class within the past five years. CHM110 General Chemistry is suggested but not required

#### **BUS 104 Introduction to Business**

3 Cr Hrs

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.

#### **BUS 106 Office Procedures**

3 Cr Hrs

Prepares students to handle situations in an office setting. Students learn office management skills including communication, and organization skills.

#### **BUS 121 Business Communications**

3 Cr Hrs

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.

#### **BUS 125 Business Law**

3 Cr Hrs

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.

#### **BUS 130 Personal Finance**

3 Cr Hrs

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.

#### **BUS 140 Principles of Marketing**

3 Cr Hrs

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.

#### **BUS 200 Principles of Management**

3 Cr Hrs

Explores the basic management functions of planning and controlling that pertain to the type of business for which student is preparing to work on a career basis. The basic management theories, functions and aspects of various types of business are studied.

## CAT 101 CATIA Part Design & Sketcher

4 Cr Hrs

Core course of CATIA V5. Course covers the creation of solid parts without complex contours. Students will be introduced to the part environment of CATIA V5 and learn how to work between Sketcher and Part Design workbenches to create individual parts.

## **CAT 102 CATIA Drafting**

4 Cr Hrs

This course covers the creation of engineering drawings. Students will be introduced to the drafting environment of CATIA V5 and learn how to create drawings from parts and products. **Prerequisite:** CAT101 with a minimum grade of C or instructor approval

## **CAT 105 CATIA Assembly Design**

4 Cr Hrs

This course covers the use of multiple parts to create an assembly. It also covers the various analytical and navigation tools that are available within an assembly. Students will be introduced to the product environment of CATIA V5 and learn how to work with multiple parts between the Assembly Design, DMU Space Analysis and DMU Navigator workbenches.

**Prerequisite:** CAT101 with a minimum grade of C or instructor approval

#### CAT 110 CATIA Wireframe & Surfaces

4 Cr Hrs

Extension of the parts environment covers the use of wireframe and surface geometry to create complex contours. Cores concentrate on the tools available and how to integrate this geometry back into a solid part.

**Prerequisite:** CAT101 with a minimum grade of C or instructor approval

## **CAT 115 CATIA Prismatic Machining**

4 Cr Hrs

This course is the beginning manufacturing course. This course covers the machining operations involved in 3-axis milling. Students will be introduced to the process environment of CATIA V5 and learn how to work between the process, part and product environments. **Prerequisite:** CAT101, CAT105 with a minimum grade of C or instructor approval

## CAT 120 CATIA ENOVIA LCA

3 Cr Hrs

This course provides students with a thorough background in the Enterprise Innovation via Life Cycle Applications. Student will learn to utilize the ENOVIA system to manage a product from initial conceptual drawings, through 3D modeling, to retirement of the product. **Prerequisite:** CAT101, CAT105 with a minimum grade of C or instructor approval

#### **CAT 124 CATIA Surface Machining**

3 Cr Hrs

This course is a continuation in the manufacturing environment. This course covers the more advanced machining operations involved in full 3-axis and multi-axis machining. Students will learn how to integrate the manufacturing tools available in Prismatic Machining, Surface Machining and Advanced Machining.

**Prerequisite:** CAT101, CAT105, CAT115 with a minimum grade of C or instructor approval

#### **CED 101 Computer Essentials**

2 Cr Hrs

This course is designed to develop students' computer literacy, keyboarding skills and to meet the needs of students in the associate degree programs and technical certificate programs. The student will learn from hands-on experiences basic skills in file management utilities, word processing, spreadsheets, and graphical presentations in the Windows environment.

#### CED 102 Keyboarding

1 Cr Hr

This course is designed to develop utilization of the touch system of keyboarding on the standard keyboard and manipulation of the operative parts of the keyboard. Emphasis will be on accuracy with speed.

#### **CED 115 Computer Applications**

3 Cr Hrs

Introduces students to the fundamental concepts and operations necessary to use computers. Emphasis is placed on basic functions and familiarity with computer use. Topics include computer terminology, introduction to the Windows environment, networking, word processing, spreadsheets and databases.

**Prerequisite:** Students are encouraged to complete a self-assessment to determine skill set prior to enrolling in this course.

#### CED 116 Advanced Word

2 Cr Hrs

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

**Prerequisite:** Minimum grade of "C" or better in CED 115 Computer Applications or acceptable prior experience with Microsoft Word or consent of the dean

#### CED 117 Advanced Excel

2 Cr Hrs

Upon completion of this course students should understand the basic concepts of Excel, be able to format cells, ranges, and worksheets, work with data, use basic and advanced formulas and functions, create and modify charts, insert pictures and shapes to a worksheet.

**Prerequisite:** Minimum grade of "C" or better in CED 115 Computer Applications or acceptable prior experience with Microsoft Excel or consent of the dean

#### **CED 118 Advanced PowerPoint**

2 Cr Hrs

Upon completion of this course students should understand the basic essentials of PowerPoint, insert and modify text on slides, add tables, graphics, and video to presentations, use transitions and animations, secure and share a presentation. Students should be able to create and present a PowerPoint presentation.

**Prerequisite:** Minimum grade of "C" or better in CED 115 Computer Applications or acceptable prior experience with Microsoft PowerPoint or consent of the dean

#### CFT 101 Introduction to Composites

2 Cr Hrs

This course provides students with the fundamentals of composite theory in an interactive on line environment. Students then apply the concepts to industry based projects in a 3D interactive online environment and a world class composite laboratory. Topics include the materials, equipment, processes, components and design of polymer composite structures. **Prerequisite:** AVC100, AVC102

2 Cr Hrs

CFT 106 Composite Finish Trim

2 Cr Hr
This course provides students with an understanding of the processes and procedures use to finish trim composites parts. Topics include safety, documentation, tools, procedures and inspection.

Prerequisite: CFT 101, CFT 130, AVC100

#### CFT 107 Composite Assembly

2 Cr Hrs

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

## CFT 130 Composites Fabrication Methods/Applications

2 Cr Hrs

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

## **CFT 135 Overview of Composite Inspection**

This course is designed to provide students with an understanding of the inspection process during repair procedures. Students will learn the role of repair technicians in the inspection process. Emphasis will be placed on the importance of documentation in the inspection of repair. This course utilizes online content.

#### **CFT 140 Composites Inspection**

2 Cr Hrs

This course is designed to provide students with an understanding of the inspection process during repair procedures. Students will learn the role of repair technicians in the inspection process while obtaining hands on experience in basic NDI testing techniques. Emphasis will be placed on the importance of documentation in the inspection of repair. This course utilizes online, classroom and laboratory learning environments.

Prerequisite: must have completed Composite Fabrication Technician program with a letter grade of "C" or better, OR industry composite fabrication experience approval

#### CFT 141 Disassembly & Damage Removal Techniques

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

**Prerequisite:** must have completed Composite Fabrication Technician program with a letter grade of "C" or better, OR industry composite fabrication experience approval and have completed or be concurrently enrolled in CFT 140

## **CFT 142 Composite Repair**

4 Cr Hrs

This course is designed to provide students with the knowledge and techniques used for structural repair of aircraft made with composite materials. Students will complete multiple industry based projects designed to challenge their skills with both wetlay up and pre preg materials.

**Prerequisite:** must have completed Composite Fabrication Technician program with a letter grade of "C" or better, OR industry composite fabrication experience approval and CFT 141

#### CFT 143 Complex Composite Repairs

3 Cr Hrs

This course is designed to provide the student with hands on experience working with non-structural composite repairs. Instruction will include learning to solve problems presented in non-production atmospheres in relation to composite repairs. Students will also review case studies and problem solving models. **Prerequisite:** CFT 142 Composite Repair

#### **CFT 144 Electrical Bonding Repair**

1 Cr Hrs

This course will provide students with the knowledge and skills used in electrical bonding composite repair. Students will learn both theory and application using secondary bonding techniques.

**Prerequisite:** must have completed Composite Fabrication Technician program with a letter grade of "C" or better, OR industry composite fabrication experience approval and CFT 142

#### **CHM 100 Chemistry Review**

1 Cr Hr

Introduces basic concepts covered in CHM 125 Chemistry I. It is recommended for students who want to enroll in Chemistry I or a higher-level chemistry course the following semester. It is not recommended for those taking CHM 110 General Chemistry.

#### CHM 110 General Chemistry

5 Cr Hrs

An introduction to chemistry that includes the study of matter, atoms, molecules, chemical arithmetic, chemical reactions, gas laws, acids and bases, organic chemistry and laboratory experimentation.

**Prerequisite:** EBS 115 Pre-Algebra or a higher level math course with a minimum grade of "C" or better, completed within the past five years, or satisfactory course placement assessment scores

#### CHM 125 Chemistry I

5 Cr Hrs

An introduction to inorganic chemistry with emphasis on atomic structure, molecular bonding and structure, the periodic table, kinetic theory, changes of state, solutions and concentrations, chemical reactions and oxidation reduction and fundamental organic chemistry.

**Prerequisite:** CHM100 General Chemistry or high school chemistry with a grade of "C" or better within the past 5 years, and MTH101 Intermediate Algebra with a grade of "C" or better or a math ACT score of 21 or better within the past 5 years. MTH112 College Algebra can be taken concurrently

#### CHM 135 Chemistry II

5 Cr Hrs

A continuation of CHM 125 Chemistry I. A presentation of the properties of solutions, chemical kinetics, equilibrium, acid-base theory, thermodynamics, coordination chemistry, organic and biochemistry and electrochemistry. Includes laboratory experimentation.

**Prerequisite:** CHM 125 Chemistry I and MTH 112 College Algebra with minimum grade of "C" or better within the past five years

#### CNU 010 Certified Nurse Aide Update

1 Cr Hr

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

#### **CPR 001 CPR for Healthcare Providers**

1 Cr Hrs

Designed for practitioners whose primary work environment is in a clinical setting or those providing direct patient care. This is the most comprehensive credential, and it is often a Prerequisite for advanced training courses. Suggested participants include: physicians, dentists, nurses, paramedics, EMTs, respiratory therapists, pharmacists, medical or nursing assistants and other allied health professionals.

## CRJ 101 Introduction to Criminal Justice

3 Cr Hrs

Introduction to the historical backgrounds, agencies, and process, purposes and functions of the system. The ethics, administration and legal problems of the criminal justice system.

## **CRJ 105 Criminal Investigation**

3 Cr Hrs

Explores issues including the effective interview and interrogation techniques, crime scene management and lab processes, crime scene documentation methods, case preparation and court presentation.

#### CRJ 110 Criminal Law

3 Cr Hrs

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.

#### **CRJ 115 Agency Administration**

3 Cr Hrs

Conducts a practical analysis of modern administration theory and supervisory, management principles and their application to the unique operating problems of criminal justice organizations.

#### CRJ 120 Juvenile Delinquency and Justice

3 Cr Hrs

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.

## CRJ 125 Law Enforcement Operations and Procedures

3 Cr Hrs

Examines the role of police in society and the application of key concepts to policing scenarios. Students identify, discuss and assess critical police practices and processes to include deployment, arrest procedures, search strategies and other operational considerations.

## **CRJ 130 Criminal Procedures**

3 Cr Hrs

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.

## CRJ 135 Criminal Justice Interview and Report Writing

3 Cr Hrs

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.

## CRJ 140 Professional Responsibility in Criminal Justice

3 Cr Hrs

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

#### **CRJ 145 Corrections**

3 Cr Hrs

This course provides an introduction into the history of corrections, philosophical background, processes, institutions, parole, probation and offender reentry. Correctional theories and the relationship with other facets of the criminal justice system are examined.

#### **CRJ 150 Community Policing**

An examination of the relationship between the police and the community they serve. Defines and explores modern philosophies and techniques designed to build partnerships between the police and citizens.

**Prerequisite:** CRJ101 Introduction to Criminal Justice

#### **CRJ 155 Policing Diverse Cultures**

3 Cr Hrs

This course examines the challenges and opportunities law enforcement faces providing public safety services in culturally diverse communities. The influences of culture, ethnicity, race, sexual orientation, and socioeconomic class will also be discussed.

#### CRJ 160 Internship in Criminal Justice

3 Cr Hrs

The purpose of the internship program is to allow students an opportunity to gain knowledge and experience in law enforcement and public safety services and further explore careers in the field with a focus on urban policing.

**Prerequisite:** CRJ101 Introduction to Criminal Justice, CRJ125 Law Enforcement Operations & Procedures, CRJ135 Criminal Justice Interview & Report Writing, and CRJ140 Corrections

#### CRJ 165 Directed Independent Study

3 Cr Hrs

This course is an extension of Police Sciences curriculum. The course is designed to provide a structured learning experience to broaden the student's comprehension of the outcomes and competencies associated with Police Sciences. Topics of specific interest to the student, augmenting the Police Sciences curriculum are developed with competencies based on student needs/or requirements to apply learned skills to out of class activities and work-related environments or projects.

**Prerequisite:** CRJ101 Introduction to Criminal Justice, CRJ125 Law Enforcement Operations & Procedures, CRJ135 Criminal Justice Interview & Report Writing, and CRJ140 Corrections

#### **CRJ 170 Seminars in Criminal Justice**

3 Cr Hrs

This course provides focused instruction in the areas of law enforcement principals, criminal investigations, police response, policy formation and administrative methods for effective policing in contemporary society. Students will participate in real world scenarios and work through these situations using the Judgmental Use of Force Simulator.

**Prerequisite:** CRJ101 Introduction to Criminal Justice, CRJ135 Criminal Justice Interview & Report Writing, and CRJ140 Corrections

#### CWG 103 Print Reading II / Welding

1 Cr Hr

Blue Print II gives instruction in the universal language of drawing interpretation from which information is conveyed for the manufacture of parts and assemblies. Students will fabricate a total of 4-5 projects from shop drawings. Welding symbols and abbreviations for well- meant fabrications: fillet welds, groove welds, back or backing and melt thru welds, plug and slot welds, surfacing welds, edge welds, spot welds, projection welds, seam welds, stud welds. **Prerequisite:** C or better in Blue Print I and have be concurrently enrolled in at least one core welding class.

#### CWG 110 Welding Applications

4 Cr Hrs

The student will spend a total 26 hrs. in each – SMAW, GMAW, GTAW, & Oxy Fuel welding. Students will learn basic elements of each in the course.

## CWG 115 SMAW 3 Cr Hrs

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; build pads of weld beads with selected electrodes in the flat position; build pads of weld beads with selected electrodes in the horizontal position; perform basic SMAW welds on selected weld joints; and perform visual inspection of welds.

Prerequisite: AVC110, AVC112, CWG110

#### CWG 116 SMAW II

4 Cr Hrs

This course is designed to give students learning opportunities in the form of assessments and activities in the classroom, lab and/or shop students in this course will: describe the Shielded Metal Arc Welding process (SMAW); demonstrate the safe and correct set up of the (SMAW) workstation; associate (SMAW) electrode classifications with base metals and joint criteria; demonstrate proper electrode selection and use based on metal types and thicknesses; build tjoint and lap weld beads with selected electrodes in the flat position; build t-joint and lap weld beads with selected electrodes in the horizontal position; perform basic (SMAW) welds on selected metal thicknesses; and perform visual inspection of said welds. Student will also start out of position welds in the vertical (3) and overhead (4) positions. Including but not limited to fillet and groove welds.

Prerequisite: AVC110, AVC112, CWG110, CWG115 with a grade of "C" or better

## CWG 120 GMAW 3 Cr Hrs

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; build pads of weld beads with selected electrodes in the flat position; build pads of weld beads with selected electrodes in the horizontal position; produce basic GMAW welds on selected weld joints; and conduct visual inspection of GMAW welds.

Prerequisite: AVC110, AVC112, CWG110

#### CWG 121 GMAW II

4 Cr Hrs

Through classroom and/or shop/lab learning and assessment activities, students in this course will: explain gas metal arc welding process (GMAW); demonstrate the safe and correct set up of the GMAW work station. Correlate GMAW electrode classifications with base metals and joint criteria; demonstrate proper electrode selection and use based on metal types and thicknesses. Build t-joint and lap weld beads with selected electrodes in the flat position; build t-joint and lap weld beads with selected electrodes in the horizontal position; perform basic GMAW welds

Student will perform welds in the vertical (3) and overhead (4) positions, this will include but not limit to fillet weld and groove welds.

Prerequisite: AVC110, AVC112, CWG110, CWG120 with a grade of "C" or better

## CWG 125 GTAW 3 Cr Hrs

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 electrode and filler metal selection and use based on metal types and thicknesses; build pads of weld beads with selected electrodes and filler material in the flat position; build pads of weld beads with selected electrodes and filler material in the horizontal position; perform basic GTAW welds on selected weld joints; and perform visual inspection of GTAW welds

**Prerequisite:** AVC110, AVC112, CWG110

#### CWG 126 GTAW II

4 Cr Hrs

Through classroom and/or shop/lab learning and assessment activities, students in this course will: explain the gas metal arc welding process (GTAW); demonstrate the safe and correct set up of the (GTAW) work station; correlate (GTAW) electrode classifications with base metals and joint criteria; demonstrate proper electrode selection and use based on metal types and thicknesses. Students will build t-joint and lap weld beads with selected electrodes in the flat position; build t-joint and lap weld beads with selected electrodes in the horizontal position; perform basic (GTAW) welds. Students will perform welds in the vertical (3) and overhead (4) positions; this will include but not be limited to fillet weld and groove welds. Students will also be introduced to aluminum and stainless steel.

Prerequisite: AVC110, AVC112, CWG110, CWG125 with a grade of "C" or better

### CWG 141 Oxy-Acetylene Welding & Cutting

2 Cr Hrs

Includes lecture and laboratory and teaches students to set up and operate oxy-acetylene welding and cutting equipment with emphasis on safety.

#### CWG 145 Fabrication & Design

2 Cr Hrs

This course is designed to provide students with the opportunity to apply fabrication and design principles in various WATC campus related and student projects.

**Prerequisite:** Must be concurrently enrolled in one or more core classes or successfully passed core classes

#### **CWG 149 Materials & Testing**

2 Cr Hrs

Provides knowledge and skills in the areas of metallurgy and weld testing. Teaches the different uses and testing procedures for steel, stainless steel, aluminum and various alloys. Emphasizes welds approved for testing by the American Welding Society.

## **CWG 242 SMAW D1.1 Qualification**

Assists students in preparing to take the shielded metal arc welding (SMAW) qualification test. Students follow all safety procedures related to the various tools and equipment involved in this course. They understand the qualification and code system for structural qualification; identify, measure, cut and prepare the material required for this qualification; and learn the skills for structural welding. Students have time in class to practice these skills in preparation for the structural certification test(s). Completion of this course does not ensure qualification. **Prerequisite:** CWG142 Shielded Metal Arc Welding or administrator approval.

#### CWG 243 GMAW D1.1 Qualification

4 Cr Hrs

Assists students in preparing to take the gas metal arc welding (GMAW) qualification test. Students follow all safety procedures related to the various tools and equipment involved in this course; understand the qualification and code system for structural qualification; identify, measure, cut and prepare materials required for this qualification; and learn the skills for structural welding. Students have time in class to practice these skills in preparation for the structural qualification test(s). Completion of this course does not ensure qualification. **Prerequisite:** CWG143 Gas Metal Arc Welding or administrator approval.

#### CWG 250 API 1104 Qualification

4 Cr Hrs

Assists students in preparing to take the pipe certification test. Students follow all safety procedures related to the various tools and equipment involved in this class. They understand the certification and code system for pipe certification. They also identify, measure, cut and prepare the pipe required for this certification. They learn the skills for structural welding cross-country gas and oil lines and have time to practice these skills in preparation for the pipe certification test.



#### DAS113 Dental Materials I

4 Cr Hrs

Covers identification of materials used in general dentistry; physical and chemical properties, functions and classifications. Includes principles of safety and aseptic technique involved in working with materials and equipment. Laboratory practice with impressions materials and gypsum products, dental cements, waxes, resins and restorative materials. Custom trays, dies, articulated models and temporary crowns are fabricated.

**Prerequisite:** Satisfactory course placement assessment scores and completion or concurrent enrollment in DAS100 Introduction to Dental Health Professions, DAS108 Dental Health Education, DAS114 Dental Radiology I, DAS 119 Dental Anatomy, DAS122 Chairside Assisting I,DAS147 Dental Practice Management, and DAS 149 Infection Control in Dental Practice

## **DAS114 Dental Radiology I**

Fundamental concepts and usage of intraoral radiographic techniques to safely use diagnostic radiography in the dental office. Includes an introduction to extraoral techniques and digital radiography.

**Prerequisite:** Satisfactory course placement assessment scores and completion or concurrent enrollment in DAS100 Introduction to Dental Health Professions, DAS108 Dental Health Education, DAS113 Dental Materials 1, DAS 119 Dental Anatomy, DAS122 Chairside Assisting I,DAS147 Dental Practice Management, and DAS 149 Infection Control in Dental Practice.

#### DAS 119 Dental Anatomy

2 Cr Hrs

A detailed study of the structure and function of head, neck, and oral cavity, including oral disease. Laboratory work includes oral tissue examination and demonstrations of tooth drawings. **Prerequisites:** Satisfactory course placement assessment scores and completion or concurrent enrollment in DAS100 Introduction to Dental Health Professions, DAS108 Dental Health Education, DAS 113 Dental Materials, DAS114 Dental Radiology I, DAS122 Chairside Assisting I,DAS147 Dental Practice Management, and DAS 149 Infection Control in Dental Practice.

#### **DAS 120 Dental Science**

2 Cr Hrs

Provides students with knowledge of medical emergencies that may arise in the dental setting. Students are expected to recognize signs and symptoms of specific emergencies to assist in the delivery of the suggested treatment. Basic first aid and skills in taking and recording vital signs will be taught. Pharmacology for the dental assistant is also included. Study of disease processes, especially those involving the oral cavity. In addition, the student will discuss nitrous oxide and its administration. The student must complete a written examination demonstrating the course competency and clinical competency to demonstrate administration and monitoring of Nitrous Oxide to receive certification to administrator nitrous oxide, the student. The exam and competency must be passed with a minimum proficiency of 75% to be certified in nitrous oxide. The student will not receive their certification until they have completed the Dental Assistant program.

**Prerequisite:** Minimum of 'C' or better in DAS100 Introduction to Dental Health Professions, DAS108 Dental Health Education, DAS 113 Dental Materials, DAS114 Dental Radiology I, DAS119 Dental Anatomy, DAS122 Chairside Assisting I,DAS147 Dental Practice Management, and DAS 149 Infection Control in Dental Practice. Concurrent enrollment in DAS140 Chairside Assisting II, DAS146 Dental Radiology, DAS148 Dental Materials II, and DAS150 Clinical Experience I.

# DAS 122 Chairside Assisting I

4 Cr Hrs

Introduction to the operation and care of major dental equipment, identification and care of hand and rotary instruments, and safety factors relating to instruments and equipment. Introduction and practice of basic duties and responsibilities: seating and dismissing the dental patient, oral evacuation, retraction, and instrument transfer, study of dental anesthesia, restorative dentistry with practice in application of matrix bands and dental dams and fixed prosthodontics. **Prerequisite:** Satisfactory course placement assessment scores and completion or concurrent

enrollment in DAS100 Introduction to Dental Health Professions, DAS108 Dental Health Education, DAS 113 Dental Materials, DAS114 Dental Radiology I, DAS1119 Dental Anatomy, DAS147 Dental Practice Management, and DAS 149 Infection Control in Dental Practice.

#### DAS 140 Chairside Assisting II

2 Cr Hrs

Continuation of DAS122 Chairside Assisting I. This course will provide a foundation for assisting in the dental specialties of oral and maxillofacial surgery, endodontics, and removable prosthodontics, periodontics, orthodontics and dentofacial orthopedics, and pediatric dentistry. Procedures, instruments and materials involved in these areas will be studied.

**Prerequisite:** Minimum of 'C' or better in DAS100 Introduction to Dental Health Professions, DAS108 Dental Health Education, DAS 113 Dental Materials, DAS114 Dental Radiology I, DAS119 Dental Anatomy, DAS122 Chairside Assisting I,DAS147 Dental Practice Management, and DAS 149 Infection Control in Dental Practice. Concurrent enrollment in DAS120 Dental Science, DAS146 Dental Radiology, DAS148 Dental Materials II, and DAS150 Clinical Experience I.

#### DAS 146 Dental Radiology II

1 Cr Hr

Continuation of Radiology I with more intensive experience in exposing, processing and mounting intraoral films using the DXTTR manikin and patients. Students will be closely supervised and an evaluation will be made of each completed survey. Radiographic safety and infection control procedures are emphasized.

**Prerequisite:** Minimum of 'C' or better in DAS100 Introduction to Dental Health Professions, DAS108 Dental Health Education, DAS 113 Dental Materials, DAS114 Dental Radiology I, DAS119 Dental Anatomy, DAS122 Chairside Assisting I,DAS147 Dental Practice Management, and DAS 149 Infection Control in Dental Practice. Concurrent enrollment in DAS120 Dental Science, DAS140 Chairside Assisting II, DAS148 Dental Materials II, and DAS150 Clinical Experience I.

### **DAS 147 Dental Practice Management**

3 Cr Hrs

This course will provide instruction in additional business office procedures: recording services rendered, appointment control and recall, accounts receivable, collections, expenses and disbursements, banking procedures, and dental insurance.

**Prerequisite:** Satisfactory course placement assessment scores and completion or concurrent enrollment in DAS100 Introduction to Dental Health Professions, DAS108 Dental Health Education, DAS 113 Dental Materials I, DAS114 Dental Radiology I, DAS119 Dental Anatomy, DAS122 Chairside Assisting I, and DAS 149 Infection Control in Dental Practice.

#### **DAS 148 Dental Materials II**

1 Cr Hr

This course is a continuation of DAS113 Dental Materials I and includes identification of materials used in general dentistry and dental laboratory procedures. Proper manipulation of materials, their uses and correct storage are practiced. Study various laboratory procedures including waxing, investing and casting of a crown, construction of baseplates and bite rims,

bleaching trays and an orthodontic retainer are practiced. Students are instructed in and expected to demonstrate the safe operation of laboratory equipment.

**Prerequisite:** Minimum of 'C' or better in DAS100 Introduction to Dental Health Professions, DAS108 Dental Health Education, DAS 113 Dental Materials, DAS114 Dental Radiology I, DAS119 Dental Anatomy, DAS122 Chairside Assisting I,DAS147 Dental Practice Management, and DAS 149 Infection Control in Dental Practice. Concurrent enrollment in DAS120 Dental Science, DAS140 Chairside Assisting II, DAS146 Dental Radiology II, and DAS150 Clinical Experience.

# DAS 149 Infection Control for Dental Practice

2 Cr Hrs

Introductory principles of microbiology: classification and characteristics of microbes with primary consideration to pathogenic microorganisms, causes of disease, transmission of infectious diseases, immune response, universal precautions, handling of hazardous materials and infection control techniques according to OHSA and ADA guidelines.

**Prerequisite:** Satisfactory course placement assessment scores and completion or concurrent enrollment in DAS100 Introduction to Dental Health Professions, DAS108 Dental Health Education, DAS 113 Dental Materials, DAS114 Dental Radiology I, DAS119 Dental Anatomy, DAS122 Chairside Assisting I, and DAS147 Dental Practice Management

# **DAS 150 Clinical Experience**

7 Cr Hrs

This course gives students the opportunity to apply and practice the principles and procedures studied in the formal academic program. In private practice dental offices (both general practice and specialty offices), government clinics and public health facilities, students demonstrate the principles of chairside assisting, dental laboratory procedures and dental office procedures. Students will be assigned to two clinical rotations, one of which will be a general practice office.

**Prerequisite:** Minimum of 'C' or better in DAS100 Introduction to Dental Health Professions, DAS108 Dental Health Education, DAS 113 Dental Materials, DAS114 Dental Radiology I, DAS119 Dental Anatomy, DAS122 Chairside Assisting I,DAS147 Dental Practice Management, and DAS 149 Infection Control in Dental Practice. Concurrent enrollment in DAS120 Dental Science, DAS140 Chairside Assisting II, DAS146 Dental Radiology II, and DAS148 Dental Materials II.

#### **DAS 215 Supragingival Scaling**

5 Cr Hrs

This is a course approved by the Kansas Dental Board, designed for experienced dental assistants to expand their skills in preventive dentistry with didactic, laboratory and clinical instruction in supragingival scaling and polishing. Includes review of dental anatomy and terminology, radiography and infection control, as well as didactic instruction in nutrition, periodontal disease, dental caries, oral hygiene instruction, topical fluoride, principles of instrumentation, communication skills and risk management.

**Prerequisite:** Graduate of an accredited dental assistant program and CDA (Certified Dental Assistant) and six months of experience as a dental assistant or three years employment as a dental assistant within the last five years or departmental consent or satisfactory course placement assessment

#### **DIS 150 Directed Individual Studies**

**1-12 Cr Hrs** 

Provides the instructor and student an opportunity to develop special learning environments. Instruction is delivered through occupational work experience, practicum's, advanced projects, industry sponsored workshops, seminars, or specialized and/or innovative learning arrangements. Topics include: application of occupational technical skills, adaptability to the work environment, and problem solving. Each course is documented with a written agreement between the instructor and the student detailing expected requirements. The course is offered with variable credit ranging from 1 to 12 credit hours.

#### **DIS 151 Directed Individual Studies**

1-12 Cr Hrs

Provides the instructor and student an opportunity to develop special learning environments. Instruction is delivered through occupational work experience, practicum's, advanced projects, industry sponsored workshops, seminars, or specialized and/or innovative learning arrangements. Topics include: application of occupational technical skills, adaptability to the work environment, and problem solving. Each course is documented with a written agreement between the instructor and the student detailing expected requirements. The course is offered with variable credit ranging from 1 to 12 credit hours.



# **ECO 105 Principles of Macroeconomics**

3 Cr Hrs

This course explores the fundamental aspects of the United States economy including growth, fiscal and monetary policies, unemployment, inflation, national debt, money and the Federal Reserve System. National and international policy topics are discussed.

# **ECO 110 Principles of Microeconomics**

3 Cr Hrs

Attention is given to the methods of producing the goods and services that the economy provides. The following areas are explored: supply, demand, pricing, scarcity, business firms, business anti-trust and public interest, incomes, wages and salaries, income distribution, taxes and tax reform.

# **ENG 010 College Reading Skills**

3 Cr Hrs

Develops students' reading skills necessary for successful completion of postsecondary coursework. Instruction is based on application of research-based reading strategies to authentic college texts. It is required that any student scoring in the range of 0-60 on the COMPASS reading assessment enrolls in this course. The course does not count toward the A.S., A.A., or A.A.S. degrees.

**Prerequisite:** There are no prerequisites for this course; this course is for students whose assessment score indicates a need for developmental work to help with future success.

# **ENG 020 Basic Writing Skills**

3 Cr Hrs

Enables students to construct complete simple, compound and complex sentences by applying grammar concepts learned. Enables students to write a focused, organized, supported paragraph without fragment, run-on or comma splice errors. The course does not count toward the A.S., A.A., or A.A.S. degrees.

**Prerequisite:** COMPASS Writing score of 0-44.

# ENG 030 English 3 Cr Hrs

Designed to equip students for success in the writing required during academic endeavors. Review of grammar is individualized and self-paced. Writing assignments include a number of paragraphs and major essays. To demonstrate readiness for and to be allowed to enroll in ENG 101 Composition I, students must pass this course with a grade of "C" or above and pass the final exam. The course does not count toward the A.S., A.A., or A.A.S. degrees.

**Prerequisite:** EBS103 Basic Paragraph Writing with a minimum grade of "C" or better or satisfactory course placement assessment scores

# ENG 101 Composition I

3 Cr Hrs

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.

**Prerequisite:** ENG030 English with a minimum grade of "C" or better or satisfactory course placement assessment scores

# ENG 120 Composition II

3 Cr Hrs

Through a study of poetry, short story, drama and essays as literary forms, this course furthers students' writing skills. This course also improves research techniques through writing an indepth research essay in Modern Language Association (MLA) style. It emphasizes accuracy and fluency in expressing sound ideas in class discussions, assignments and essays.

**Prerequisite:** ENG 101 Composition I with a grade of "C" or better and a passing grade on the Composition I post-test. High school students should have senior standing to enroll in ENG 120 Composition II

# ENT 110 Introduction to Entrepreneurship

3 Cr Hrs

Familiarizes students with the world of small business. Students are introduced to the concepts needed to seek out business opportunities as well as the tools needed to evaluate successful ventures. Considerable attention is given to the concepts of planning, financing and marketing new businesses.

# FOL 101 Spanish I

5 Cr Hrs

This course is designed to help the student increase their knowledge of Spanish vocabulary, grammar, elementary syntax and composition, basic reading, and pronunciation with practice in everyday conversation.

# FOL 110 Spanish II

5 Cr Hrs

This course is designed to help the student increase their knowledge of Spanish vocabulary, grammar, elementary and intermediate syntax and composition, basic reading, and pronunciation with practice in everyday conversation.

**Prerequisite:** FOL101



#### **GRA 101 Certified Nurse Aide**

5 Cr Hrs

Prepares students to be caregivers in nursing homes while working under the supervision of licensed nurses. Includes classroom instruction, laboratory and clinical experience. Program meets Kansas State Department of Health and Environment guidelines. Graduates may take the state examination to become a certified nurse aide.

## **GRA 119 Medication Aide**

5 Cr Hrs

Focuses on the knowledge and skills needed for safe medication administration in long-term care facilities. Graduates are eligible to take the Kansas certification examination to become certified medication aides.

**Prerequisite**: GRA 101 Certified Nurse Aide or Kansas Certified Nurse Aide certification.



#### HHA 100 Home Health Aide

2 Cr Hrs

Prepares the certified nurse aide (CNA) to care for clients in community and home settings. Graduates may take the Kansas certification examination to become a home health aide (HHA). **Prerequisite:** GRA 101 Certified Nurse Aide or Kansas Certified Nursing Aide certification.

# **HIS 110 United States History to 1877**

3 Cr Hrs

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.

#### **HIS 120 United States History since 1865**

3 Cr Hrs

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.

#### HIS 130 World History I

3 Cr Hrs

This course provides an introduction to the birth and development of World History to the mid16th century. Students will survey the important political, cultural, economic, and religious/philosophical accomplishments of this period.

I

# IND 100 Industrial Safety Procedures

<u> 1 Cr Hrs</u>

This course provides an in-depth study of the human and safety practices required for maintenance of industrial, commercial, and home electrically operated equipment. Topics include: introduction to OSHA regulations; safety tools, equipment, and procedures; and first aid and cardiopulmonary resuscitation.

# IND 102 Manufacturing Overview

1 Cr Hrs

This course is designed to provide technicians with a basic understanding of the business principles which drive manufacturing. Topics include basic terminology, planning and scheduling and quality assurance.

# IND 104 Drafting for Industrial Maintenance

1 Cr Hrs

This course is designed to provide a basic understanding of machine blueprints and the ability to freehand sketch machine parts as needed on the plant floor.

# IND 106 Direct & Alternating Current

4 Cr Hrs

This course introduces direct current (DC) concepts and applications and the theory and application of varying sense wave voltages and current. Topics include: electrical principles and laws; batteries; DC test equipment; series, parallel and simple combination circuits; magnetism, AC wave generation, AC test equipment, inductance, capacitance, and basic transformers, and laboratory procedures and safety practices. **Prerequisite:** IND100 or departmental approval

#### IND 108 Industrial Wiring

2 Cr Hrs

This course teaches the fundamental concepts of industrial wiring with an emphasis on installation procedures. Topics include: grounding, raceways, three-phase systems, transformers (three-phase and single-phase), wire sizing, overcurrent protection, NEC requirements, industrial lighting systems, and switches, receptacles, and cord connectors.

Prerequisite: IND106

# IND 109 Basic Industrial Programmable Logic Controls

3 Cr Hrs

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.

**Prerequisite:** IND116 or departmental approval.

#### IND 110 DC & AC Motors

1 Cr Hrs

This course introduces the fundamental theories and applications of single-phase and three-phase motors. Topics include: motor theory and operating principles, motor terminology, motor identification, NEMA standards, AC motors, DC motors, scheduled preventive maintenance, and troubleshooting and failure analysis.

**Prerequisite:** IND108

#### IND 112 Fundamentals of Motor Control

2 Cr Hrs

This course introduces the fundamental concepts, principles, and devices involved in industrial motor control. Emphasis is placed on developing a theoretical foundation of industrial motor control devices. Topics include: principles of motor control, control devices, symbols and schematic diagrams. **Prerequisite:** IND110

#### IND 113 Solid State & Digital Devices

3 Cr Hrs

This course introduces the physical characteristics and applications of solid state devices and digital circuits. Topics include: introduction to semiconductor fundamentals, diode applications, basic transistor fundamentals, basic amplifiers, and semiconductor switching devices, digital devices, arithmetic circuits and conversion from analog to digital and digital to analog.

**Prerequisite:** IND06 Direct & Alternating Current

# IND 114 Magnetic Starters & Braking

2 Cr Hrs

This course provides instruction in wiring motor control circuits. Emphasis is placed on designing and installing magnetic starters in across-the-line, reversing, jogging circuits, and motor braking. Topics include: control transformers, full voltage starters, reversing circuits, jogging circuits, and braking.

**Prerequisite:** IND112

#### IND 116 Advanced Motor Controls

3 Cr Hrs

This course provides instruction in two-wire motor control circuits using relays, contractors, and motor starts with application sending devices. Topics include: wiring limit switches, wiring pressure switches, wiring float switches, wiring temperature switches, wiring proximity switches, wiring photo switches, sequencing circuits, reduced voltage starting, motor control centers, and troubleshooting.

**Prerequisite:** IND112

# IND 117 Variable Speed Motor Control

2 Cr Hrs

This course provides instruction in the fundamentals of variable speed drives, industrial motors, and other applications of variable speed drives. Topics include: fundamentals of variable speed control, AC frequency drives, DC variable speed drives, installation procedures, and ranges.

**Prerequisite:** IND116

# IND 119 Industrial Precision Alignment

3 Cr Hrs

In this course students will learn the precision alignment techniques and skills required bring machinery back to OEAM specifications while following all industry standards including documentation and scheduling. Course includes working knowledge of axis of movement, M&G codes, tolerance, machine geometry, and manual and laser precision alignment equipment.

**Prerequisite:** IND117

#### **IND 121 Maintenance for Reliability**

3 Cr Hrs

This course applies advanced instrumentation in conjunction with principles of mechanical physics, vibration and particulate analysis, thermography, and advanced reliability concepts relative to precision/predictive maintenance of industrial and automated equipment.

**Prerequisite:** IND119 or concurrent

# IND 123 Industrial Fluid Power & Pumping & Piping Systems 4 Cr Hrs

This course provides instruction in fundamental concepts and theories for safely operating hydraulic components and pneumatic systems and industrial pumps and piping systems. Topics include: hydraulic theory, suction side of pumps, actuators, valves, pumps/motors, accumulators, symbols and circuitry, fluids, filters, pneumatic theory, compressors, pneumatic valves, air motors and cylinders, pump identification; pump operation; pump installation, maintenance, and troubleshooting; piping systems; and installation of piping systems.

Prerequisite: IND121 or departmental approval

# **IND 125 Industrial Computer Applications**

1 Cr Hrs

This course provides a foundation in industrial computers and computer systems with a focus in linking computers to the plant floor process. Topics include: hardware, software, boot sequence, configuration, troubleshooting, and communication platforms. Students will be prepared to take the A+ certification test.

**Prerequisite:** IND106

#### **IND 130 Industrial Mechanics**

<u> 3 Cr Hrs</u>

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. Topics include: mechanical tools, fasteners, basic mechanics, lubrication, bearings, packing's and seals.

**Prerequisite**: MTH112

# IND 131 Industrial Programmable Logic Controls

3 Cr Hrs

This course provides for hands-on development of operational skills in the maintenance and troubleshooting of industrial control systems and automated industrial equipment. Emphasis is placed on applying skills developed in previous courses in programmable logic controls (PLC's) in an industrial setting. This course includes advanced skills necessary to complete the student's knowledge and skills to understand and work with PLC's in an industrial plant. **Prerequisite:** IND109 or departmental approval.

#### **IND 132 Industrial Instrumentation**

3 Cr Hrs

This course provides instruction in the principles and practices of instrumentation for industrial process control systems with an emphasis on industrial maintenance techniques for production equipment. Topics include: instrument tags; process documentation; basic control theory, sensing pressure, flow, level, and temperature; instrument calibration; and loop tuning. **Prerequisite:** IND131 or departmental approval.

#### INF 105 A+ Certification - Essentials

3 Cr Hrs

This course will prepare student to take the CompTIA A+ Practical Application exam which measures the necessary competencies for an entry-level IT (Information Technology) professional. Successful students will have the skills required to install, configure, upgrade, and maintain PC (Personal Computer) workstations, the Windows OS (Operating System) and SOHO (Small Office Home Office) networks. 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.

# INF 110 A+ Certification - Application

3 Cr Hrs

This course will prepare student to pass the CompTIA A+ Essentials exam. The CompTIA A+ Essentials examination measures necessary competencies for an entry-level IT professional. 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.

**Prerequisite:** INF105 A+ Certification – Essentials, A+ Certification or program director approval

# **INF 115 Networking + Part I**

3 Cr Hrs

This course along with INF116 Networking+ Part II prepares the student for CompTIA's Network+ certification exam. The class prepares students to work with network operating systems and network design issues.

Prerequisite: Hardware/software experience, A+ certification, or equivalent experience

# INF 116 Networking + Part II

3 Cr Hrs

This course is a continuation of INF115 Networking+ Part I and prepares the student for CompTIA's Network+ certification exam. The class prepares students to work with network operating systems and network design issues. Also covered at length are back-up and disaster recovery issues and viruses.

**Prerequisite:** INF115 Network+ Part I or Hardware/software experience, A+ certification, or equivalent experience

# INF 120 Security + Part

3 Cr Hrs

This course prepares student for the CompTIA Security+ Certification exam. CompTIA Security+ exam is an internationally recognized validation of foundation-level security skills and knowledge, and is used by organizations and security professionals around the globe.

**Prerequisite:** INF115 Networking + required, CTP+ certification, or program director approval

#### INT 100 Accessories

1 Cr Hr

This is an introduction to decorative accessories that focuses on the components of display for effective visual presentation. This course utilized the principles and techniques that are common to display work in interiors and various businesses. The main emphasis will be on design and color principals, hangers, and materials used for arrangement and display, and safety issues.

# **INT 101 Interior Design Fundamentals**

2 Cr Hrs

This course emphasizes the fundamentals of design by exploring design elements and principles, traffic-flow patterns, color rendering, space planning, and problem solving skills for interior design. Inclusive in this course are research techniques, creating illustration boards, and honing presentation skills.

# INT 105 Blueprint Reading for Interior Design

2 Cr Hrs

This is an introduction to blueprints for interior construction and service systems. Students will learn basic mechanical drawings, architectural drawings, and symbol and abbreviation identification used in blueprints. By using an architectural scale students will learn to draft floor plans. Construction documents, time management, and communication with architects and contractors are included in this course.

#### INT 110 Color Theory

2 Cr Hrs

This course introduces the use of color for interior design. Emphasis is on color theory, psychology of color and how it affects the brain and moods, and application of color in interior environments and lighting conditions. Included is the vocabulary of color, color temperatures, the principles of the color wheel and how to use it. With the use of paint values, tones, and shades are mastered.

INT 126 Textiles 3 Cr Hrs

By the end of the semester, each student will know various soft materials and treatments necessary for design of interior spaces, the functions of each, and their appropriate uses. Students should feel confident in researching design products. Each student will have started a reference library of local and national vendors.

#### INT 127 Materials for Interior Environments

2 Cr Hrs

Explorations of various hard treatments used in design are covered in this course. By the end of the semester, each student will know various hard treatments necessary for design of interior spaces, the functions of each, and their appropriate uses. Accurate specifications of interior materials are emphasized in this course. Students should feel confident in researching design products. Each student will have started a reference library of local and national vendors.

#### **INT 131 Faux and Decorative Painting**

4 Cr Hrs

This course is an introduction to the techniques used to produce painted and faux finishes. Topics include the history of faux finishing, color mixing, technology of paint, materials used for creating faux finishes, and specific issues related to wall glazing, ragging, sponging, strie, wood graining, granites, stones, marble, Venetian plasters and raised plaster and other techniques. Upon completion of the course, the student will be able to produce a wide variety of finishes. This course introduces students to basic business practices for painted and faux finishing, book keeping, and pricing for various faux techniques.

#### INT 141 History of Furniture & Architecture

3 Cr Hrs

This course provides students with the historical foundation of architecture and furniture, furniture styles, accent pieces, and accessories from Egyptian period through Post Modern. Students will learn chronologies, key terms, designer contributions, and ruler influence on furniture and architectural elements in a time line manner. Through hands on experience with furniture and actually creating pieces of "art styled" furnishings they will comprehend what is involved in furniture making.

#### **INT 155 Lighting Technologies**

3 Cr Hrs

This is an introduction to the basics of lighting technologies used in interior design: color, lighting styles, and lighting fixtures. Students will learn to read lamp indicators, calculate lumens and foot-candles, and determine proper heights and usage for various lighting techniques. An understanding of light analysis, residential and commercial lighting, lighting design, lighting applications, and requirements for various types of lighting are studied. Developments of lighting and electrical layouts on floor plans are inclusive in this course. **Prerequisite:** INT190 Drafting for Interiors

#### INT 160 Design Studio I

3 Cr Hrs

This course provides long and short-term projects that address real life design situation. It will develop competencies in solving design problems and teamwork. Technical and conceptual

concerns, color theory, lighting technology, scale, materials selection, and creative design articulation through presentation and illustrations are critical elements for this class. Deployment of invoicing techniques, material selection, and working within codes and standards are emphasized.

**Prerequisite:** INT101 Interior Design Fundamentals, INT105 Blueprint Reading for Interior Design, INT110 Color Theory, INT126 Textiles, INT127 Materials for Interior Environments, INT145 History of Furniture and Architecture I, INT150 History of Furniture and Architecture II, INT155 Lighting Technologies, INT175 Seminars for Interior Design, INT190 Drafting for Interiors, INT196 Interior Design Codes and Standards, and MCD116 Introduction to CAD

#### INT 165 Design Studio II

2 Cr Hrs

This course provides long and short-term projects that address real life design situation. It will develop competencies in solving design problems and teamwork. Technical and conceptual concerns, color theory, lighting technology, scale, materials selection, and creative design articulation through presentation and illustrations are critical elements for this class. Development of invoicing techniques, material selection, working within codes and standards and working with a budget is emphasized in the course. Students will be working with real time case studies. [Students may be invited to participate in events such as The Symphony Show House Design, Judge in the Wichita Area Building Associations Parade of Homes, or shadow designers with a project.]

Prerequisite: INT160 Design Studio I

# INT 170 Business Practices & Portfolio Development

3 Cr Hrs

This course covers client contracts, presentation skills, resource development, business forms and legal forms, business management and laws pertaining to interior design. A professional personal portfolio is refined in this class for employment purposes. A professional resume will be included as part of the portfolio package. Students will obtain background knowledge necessary for successful business practices for interior design.

**Prerequisite:** INT101 Interior Design Fundamentals, INT105 Blueprint Reading for Interior Design, INT110 Color Theory, INT126 Textiles, INT127 Materials for Interior Environments, INT145 History of Furniture and Architecture I, INT150 History of Furniture and Architecture II, INT155 Lighting Technologies, INT175 Seminars for Interior Design, INT190 Drafting for Interiors, INT196 Interior Design Codes and Standards and MCD116 Introduction to CAD **OR** can be taken in concurrence with INT160 Design Studio I

#### **INT 175 Seminars for Interior Design**

2 Cr Hrs

This course is designed to help the student increase their knowledge concerning professional development though resources and artistic exploration. This course is held outside the classroom in real world settings. Tours of museums, building of architectural interest, and local vendors and showrooms are the target of this course. Students will develop networking skills and create a resource library for future use in the field of interior design.

#### **INT 185 Mentorship for Interior Design**

This course is designed to help the student increase their knowledge in an in-depth application and reinforcement of interiors and employability principles in an actual job setting. Mentorship allows the student to get involved with on the job applications that require full time commitment. The student will be evaluated by the use of written performance evaluations. Application of interior principles, problem solving, adaptability to job setting, uses of personal skills, development of constructive work habits and ethics, practice confidentially, development of productively and job performance through practice.

Prerequisite: INT160 Design Studio

#### **INT 190 Drafting for Interiors**

2 Cr Hrs

This course is designed to help the student increase their knowledge concerning drafting blueprints for interior construction and service systems, and emphasizes the development of fundamental drafting techniques. Topics include terminology, care and use of drafting equipment, lettering, line relationships and geometric construction.

#### **INT 192 Illustration for Interior Design**

3 Cr Hrs

This course is designed to help the student increase their knowledge of the fundamentals of design through the exploration of sketching, hand drawing and drawings in one and two point perspective using a variety of grid layouts, eye-levels, vanishing points, cones of vision, and lighting sources are used.

**Prerequisite:** Minimum grade of "C" or better in INT190 Drafting for Interiors

#### **INT 193 Rendering for Interior Design**

3 Cr Hrs

This course is designed to help the student increase their knowledge of the fundamentals of design through the exploration perspectives, cones of vision, and lighting sources. Rendering techniques are mastered by employing markers, colored pencils, and graphite. Rendered finishes include, but not limited to, reflective finishes, textures (wood, stones, and other elements), and shadows.

**Prerequisite:** Minimum grade of "C" or better in INT190 Drafting for Interiors

#### **INT 196 Interior Design Codes & Standards**

3 Cr Hrs

This course is designed to focus on the most current and widely used building codes, fire codes, electrical and plumbing codes as required by the industry. Included are working with code officials, documenting projects both large and small, single-family homes, historical and existing buildings, and new construction.

#### INT 201 Floral Design

4 Cr Hrs

An introduction to floral arrangements focuses on the components of display for effective visual presentation. This course utilizes the principles and techniques that are common to display work in interiors and various businesses. The main emphasis will be on design and color principals, tools and materials used for floral arrangement and display, and safety issues. Wedding floral design and solemn occasions, plant and plant care, artificial and dried flowers, holidays, and theme arrangements are inclusive. Floral design business, securing funds, laws and licensing,

shop layout, wholesale market, and pricing strategies for floral design business will be part of this program.

# INT 216 Kitchen Design

3 Cr Hrs

This course is designed to help the student develop skills necessary to design kitchen solutions using the National Kitchen and Bath Association (NKBA) standards and guidelines where applicable. Projects will include the complete documentation, specification, and job estimates needed to implement the design.

**Prerequisite:** Minimum of "C" or better in INT190 Drafting for Interiors

# INT 217 Bath Design

3 Cr Hrs

This course is designed to help the student develop skills necessary to design bath solutions using the National Kitchen and Bath Association (NKBA) standards and guidelines where applicable. Projects will include the complete documentation, specification, and job estimates needed to implement the design.

Prerequisite: Minimum of "C" or better in INT190 Drafting for Interiors

# INT 235 Computer Technologies for Kitchen & Bath Design 3 Cr Hrs

This course is designed to help the student develop advanced skills necessary to design and present kitchen and bath solutions through the use of current industry software applications. Project design will be done completely on computer.

Prerequisite: INT216 Kitchen Design

J

K

 ${f L}$ 

# **LEN 100 Lean for Operations**

3 Cr Hrs

This course is designed to familiarize the students with the concepts and practices of Lean Manufacturing as applied in industry today. Students begin with a discussion of Lean Manufacturing's place in the overall process of continuous improvement. Students will then move on to learning to apply basic elements of lean, lean system design, lean tools and measurement methods to industry based scenarios.

# MCD 101 Introduction to CAD I

3 Cr Hrs

This course introduces computer-aided drafting (CAD) and examines the hardware that makes up a CAD workstation. It also covers the operating system (Microsoft Windows) that enables the equipment to function as a unit. The course shows how to use AutoCAD to set up drawings and construct lines, circles, arcs, other shapes, geometric constructions, and text. Students will use display and editing techniques as well to obtain information about their drawings and work with drawing files. This course also introduces recommended drafting standards for students to use for properly preparing drawings with AutoCAD. This course also examines dimensioning, blocks and attributes, section views, isometric drawings, multiview layouts, annotative objects, external references, and sheet sets. Students will learn how to use AutoCAD to dimension drawings, create section lines and graphic patterns, design symbols and attributes for multiple use, and create sheet sets. Student drawings will be plotted or printed. This course also covers recommended drafting standards and practices for students to use for properly perparing drawwings with AutoCAD.

MCD 102 Introduction to CAD II 2 Cr Hrs This course is a continuation of Introduction to CAD I. All the skills taught in Introduction to CAD I will be reinforced with projects.

# MCD 105 Technical Drafting I

1 Cr Hrs

Includes instruction in sketching and lettering, use and care of drafting equipment, geometric construction, multi-views, basics of isometrics, oblique projection and a study of drafting technology and ANSI standards.

# MCD 110 Principles of Tool Design

2 Cr Hrs

Provides an understanding of the general methods of tool design with emphasis on jigs and fixtures. Instruction and projects enable students to develop ideas into practical specifications for modern manufacturing methods.

# MCD 114 Architectural Drafting & Design

3 Cr Hrs

Includes instruction in freehand drawing, basic residential planning, creative design, dimensioning, working details, light construction principles, building systems and blueprint development, learning construction terminology, applying ANSI Standards, local codes and drawing prints to industry standards.

**Prerequisite:** MCD116 Introduction to CAD

# MCD 115 Machine Drafting & Design

3 Cr Hrs

Includes instruction in creative design, geometric construction, auxiliaries, dimensioning, sectioning, isometrics, oblique's, specifications and notes, manufacturing engineering techniques and Machinery's Handbook. Includes developing prints of working drawings, researching trade periodicals, learning machine terminology, using ANSI Standards and basic manufacturing blueprint development.

Prerequisite: MCD113 Technical Drafting and MCD121 Descriptive Geometry

# MCD 121 Descriptive Geometry

3 Cr Hrs

Students use computers to study descriptive geometry as it applies to drafting, and they determine true length of lines, true shapes of planes and apply descriptive geometry to real problems. Students also create flat pattern layouts to form three-dimensional shapes.

**Prerequisite:** MCD116 Introduction to CAD

#### MCD 122 Architectural CAD

4 Cr Hrs

Students use computers to study descriptive geometry as it applies to drafting, and they determine true length of lines, true shapes of planes and apply descriptive geometry to real problems. Students will also create flat pattern layouts for form three dimensional shapes.

**Prerequisite:** MCD116 Introduction to CAD

#### MCD 124 Advanced AutoCAD

4 Cr Hrs

This course explores the three-dimensional construction and viewing capabilities of AutoCAD. Topics covered include a review of point coordinate entry and the user coordinate system (UCS). Spherical and cylindrical coordinate entry, 3D viewing and display techniques, construction of 3D solid primitives, 2D regions, solid modeling composites, and surfaces are also introduced. The use of multiple viewports for 3D constructions and creating 2D layouts are covered. Visual styles and rendering are also discussed.

**Prerequisite:** MCD116 Introduction to CAD

### MCD 132 Basic Chief Architect/Architectural Desktop

3 Cr Hrs

Students use computers to learn how to utilize three-dimensional software to design houses. This course provides instruction in how to use the software and draw walls, windows, doors, foundations and roofs.

**Prerequisite:** MCD114 Architectural Drafting & Design

# MCD 134 Advanced Chief Architect/Architectural Desktop 3 Cr Hrs

Students use computers to learn how to utilize three-dimensional software to design houses. This course provides instruction in how to add interior furniture, terrains, elevations, working drawings, presentation drawings and how to use the camera functions.

**Prerequisite:** MCD132 Basic Chief Architect/Architectural Desktop

#### MCD 140 Drafting Technology Internship

4 Cr Hrs

Introduces students to the application and reinforcement of drafting and employability principles in an actual job setting. This internship acquaints students with realistic work situations and

provides insights into a drafting job. Topics include appropriate work habits, acceptable job performance, application of drafting/CAD knowledge and skills, interpersonal relations and development of productivity.

Prerequisite: Instructor approval, must have a drafting position with a company

# MCD 201 Geometric Dimensioning & Tolerance

3 Cr Hrs

The Geometric dimensioning and tolerance course is an in-depth study designed to develop a basic working knowledge in geometric dimensioning and tolerancing (GD&T). It is delivered per the ASME Y14.5M, 1994 standard. This program has been presented and refined over the past 25 years and covers what personnel need to know in order to work in an industrial environment on a daily basis. The course includes emphasis on all the basics, such as the rules, measurement theory, the datum reference frame, form, orientation, profile and positional tolerancing. The program materials contain a variety of computer color animated graphics, video clips and plastic models which allow the students to clearly understand the concepts.

# MCD 205 Residential Drafting

3 Cr Hrs

Introduces architectural drawing skills necessary to produce a complete set of construction drawings given floor plan information. Topics include footing, foundation and floor plans; interior and exterior elevations; sections and details; window, door and finish schedules; site plans; and specifications.

# MCD 206 Commercial Drafting & Design

3 Cr Hrs

Introduces commercial drawing skills necessary to produce construction drawings given floor plan information. Topics include structural steel detailing, reflected ceiling plans, rebar detailing and commercial construction drawings.

MDU 010 Medication Aid Update

Provides the continuing education required every two years by the Kansas Department of Health and Environment for renewal of the medication aide certificate.

Prerequisites: GRA 101Certified Nurse Aide and GRA119 Medication Aide.

#### **MEA 101 Professional Issues**

2 Cr Hrs

Reviews the role and function of the Medical Assistant. This course focuses on the basic concept of the professional practice of medicine and the scope of practice of the Medical Assistant. Students discuss the personal and professional characteristics and legal and ethical standards for Medical Assistants; explore professional and personal therapeutic communication, and addresses time management and goal setting.

**Prerequisite:** Acceptance/Admission to Medical Assistant program.

### MEA 111 Patient Care I

5 Cr Hrs

Introduces basic clinical skills necessary for the Medical Assistant. Aspetic practice for the medical office will be defined, basic patient interaction such as interviewing, obtaining and

recording vital signs, assisting with basic physical exams and testing will be studied **Prerequisite:** Acceptance/Admission to Medical Assistant program.

#### **MEA 113 Administrative Aspects**

program.

4 Cr Hrs

Provides an introduction to the administrative skills needed for a medical office. Students learn how to maintain medical records (both paper and electronic), manage appointments, and perform routine office duties. Focuses on the financial aspects of the medical office including accounts payable and accounts receivable. Students examine billing and collection procedures.

Prerequisite: CED115 Computer Applications and Acceptance/Admission to Medical Assistant

#### **MEA 115 Insurance Billing and Coding**

3 Cr Hrs

Explores the medical insurance system and related billing and coding. Students learn how to complete and submit electronic and paper insurance claim forms, perform referrals, and apply the correct procedure and diagnostic codes.

Prerequisite: ALH101 Medical Terminology, BIO150 Human Anatomy & Physiology

### MEA 116 Pharmacology Medication Administration

2 Cr Hrs

Course focus is in medication dosage calculation and medication administration by parenteral and gastrointestinal routes for adults and children. Competing a written prescription and interpretation of the medical order. Successful demonstration of skill competency is required. **Prerequisite:** All health care core classes as well as admission to the Medical Assistant Program. Successful completion of ALH155 Pharmacology for Allied Health with a minimum grade of "C"

#### MEA 121 Patient Care II

4 Cr Hrs

Focuses on expanding the knowledge and skills in Patient Care I. More complex and independent procedures performed by the Medial Assistant will be explored. Addresses surgical procedures, physical therapy, principles of radiology, emergency procedures and pulmonary function testing. Includes the performance of an electrocardiogram (EKG).

**Prerequisite:** Successful completion of all Medical Assistant Program 1<sup>st</sup> Semester Course Work and Prerequisite course work

#### **MEA 125 Clinical Laboratory Procedures**

4 Cr Hrs

This course addresses the role and function of the professional in the clinical laboratory setting. Topics include safety, Clinical Laboratory Improvement Act of 1988 (CLIA-88) government regulations and quality assurance in the laboratory. Students learn concepts and perform procedures in the different departments of the laboratory, including specimen collection and performance of CLIA-88 low- and/or moderate-complexity testing. Students demonstrate competencies in a wide variety of techniques used to collect, process, and test specimens. **Prerequisites:** Successful completion of all Medical Assistant program first-semester coursework and competencies.

# MEA 130 Career Strategies

1 Cr Hrs

Professional communications and the importance of the professional credential and professional memberships are explored. Interviewing skills are expanded through resume writing.

# **MEA 131 Medical Assisting Practicum**

6 Cr Hrs

Provides the opportunity to apply clinical, laboratory, and administrative skills in a supervised, non-remunerated externship in a medical facility. Emphasis is placed on enhancing competence in clinical and administrative skills necessary for comprehensive patient care and strengthening professional communications and interactions. Upon completion, students should be able to function as an entry-level health care professional. Requires current cardio pulmonary resuscitation (CPR) certification (health care provider level).

**Prerequisite:** Successful completion of Anatomy & Physiology and Medical Terminology. Successful completion of all 1<sup>st</sup> semester course work and successful completion or con-current enrollment in 2<sup>nd</sup> semester course work. Only students that successfully complete their first clinical rotation will be assigned a 2<sup>nd</sup> rotation.

# MEA 210 Advanced Procedures in Medical Assisting 4 Cr Hrs

Provides the graduate Medical Assistant an opportunity to expand current knowledge and expertise in specialized testing areas and in assisting with the performance of more complex clinical duties.

# MEC 101 Insurance Billing & Coding for the Physician's Office 4 Cr Hrs

Designed to prepare students with the mechanics and tools for the submitting of electronic/paper insurance claim forms after applying current industry coding for medical office treatments and procedures.

**Prerequisite:** ALH101 Medical Terminology, BIO100 Biology Review\*, BIO150 Human Anatomy & Physiology

\*Required if student has not had a college level science class with a laboratory component before enrolling in BIO150

# MEC 110 Legal and Ethical Issues in Healthcare

3 Cr Hrs

This course introduces the U.S. legal system, laws and ethical issues and how they relate to health care.

# MEC 115 Pathophysiology

3 Cr Hrs

Course focus is on the diseases, disorders, conditions, and the diagnostic and corrective procedures performed. Content is delivered according to body systems.

#### MEC 120 International Classification of Disease Coding

4 Cr Hrs

This course covers coding principles using the International Classification of Diseases (ICD) for the identification, coding and sequencing of principal, primary and secondary diagnoses and diagnostic and therapeutic procedures.

#### **MEC 125 Introduction to Health Information**

3 Cr Hrs

This course is designed to give the student a working knowledge of health care delivery systems; the health information profession; purpose, use and functions of the health record; documentation standards; and computerized information management systems utilized by health information management departments.

# **MEC 130 Reimbursement Methodologies**

4 Cr Hrs

This course emphasizes billing and reimbursement procedures for various for healthcare settings and an exploration of the legal and ethical issues of reimbursement.

# MEC 135 Healthcare Coding Practicum

3 Cr Hrs

Supervised learning experience designed to give students clinical experience in healthcare coding. Emphasis is placed on the quality of code assignments, sequence and payment selection.

# MEC 140 Current Procedural Terminology Coding

3 Cr Hrs

Current Procedural Terminology (CPT) Coding is designed to present basic CPT and HCPCS coding. The course will enable students to develop a basic knowledge of elements of medical procedural coding using the CPT and HCPCS manuals. Various body systems will be reviewed so that students will better understand how the coding is derived. The applications and principles learned in this course are relevant to careers in healthcare coding.

# MMG 101 Machining Blueprint

1 Cr Hr

Utilize CAD and CAM programs to design parts and program manufacturing machines. **Prerequisites**: AVC112 Blueprint Reading

# MMG 115 Machining I

3 Cr Hrs

Students will learn to conduct job hazard analysis for conventional mills and lathes, develop math skills for machine tool operations, perform preventive maintenance and housekeeping on conventional mills and lathes, select work holding devices for mills, lathes and other machine tools, calculate feeds and speeds, remove material using milling and turning processes, align milling head, use a vertical mill to center drill, drill and ream holes, change tools and tool holders on milling machines, and maintain saws and grinders.

**Prerequisites:** AVC 110, AVC 112, MMG 101, MMG 116, MMG 130, MMG 131, MMG 132 all with a minimum grade of "C" or better

# MMG 116 Quality Control & Inspection

1 Cr Hr

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.

# **MMG 126 Machining II**

3 Cr Hrs

Students learn to perform basic trigonometric functions, and perform other procedures such as I.D. boring and facing operations, planning a sequence for machining operations, aligning work pieces, use work holding devices, jigs and fixtures, performing threading operations on lathes, machining keyways on a vertical mill, inspecting and dressing grinding wheels, performing O.D. & I.D. threading operations, performing O.D. & I.D. tapering operations, machining parts using milling cutters and milling machines, and tapping holes on a vertical mill. **Prerequisites**: MMG115 Machining I with a minimum grade of "C" or better

#### MMG 130 Bench Work

1 Cr Hrs

Students will be provided the opportunity to learn and practice benchwork skills such as filing, drilling, tapping, deburring and layout for projects. They will gain valuable practical experience in the use of various hand tools by producing basic benchwork projects. Topics will include safety, print reading, job planning, and quality control.

**Prerequisites:** AVC 110, AVC 112, MMG 101, MMG 116 all with a minimum grade of "C" or better.

# MMG 131 Metallurgy

1 Cr Hrs

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.

**Prerequisites:** AVC 110, AVC 112, MMG 101, MMG 116, MMG 132 all with a minimum grade of "C" or better.

# **MMG 132 Machine Tool Processes**

1 Cr Hrs

Students learn to conduct a job hazard analysis for a machine tool group, analyze blueprints to layout parts and materials, select hand tools and common machine shop mechanical hardware for specific applications, prescribe cutting tools for assigned operations, calculate stock size to minimize drop, machine parts to specifications outlined in machine handbooks, summarize preparations for machining operations, and apply precautions to minimize hazards for work with lathes, mills, drills and grinders.

**Prerequisites:** AVC 110, AVC 112, MMG 101, MMG 116 all with a minimum grade of "C" or better.

#### **MMG 155 CNC Lathes**

3 Cr Hrs

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.

**Prerequisites:** MMG 156 CNC Operations with a minimum grade of C or instructor approval.

# MMG 156 CNC Operations

3 Cr Hrs

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. Prerequisites: MMG126 Machining II with a minimum grade of "C" or better or instructor

MMG 160 CNC Milling I

approval

3 Cr Hrs

MMG 160 CNC Milling I
Students will gain practical experience in setting up and performing basic operations on CNC Milling machines.

## MMG 165 Advanced NC Programming 3 Cr Hrs

Students will gain programming experience needed for the NIMS CNC Mill Programming certification.

# MMG 225 Machining Internship

4 Cr Hrs

This internship course offers students opportunities to be employed in their field with a 40-hour work week to expand their work experience related to their field of study.

## MTH 010 Basic Arithmetic

3 Cr Hrs

Basic Arithmetic is a course designed to provide students with basic arithmetic computational skills including basic decimals, fractions, ratios and proportions and percent's. Computation by scientific calculator will be introduced, but emphasis will be placed on computation by hand. This course does not count toward AS, AA, AGS or AAS degrees to fulfill a math requirement. **Prerequisite:** Satisfactory course placement assessment scores

#### MTH 020 Math Fundamentals

3 Cr Hrs

Provides students with the skills necessary to be successful in their math courses. The course is designed to identify the student's specific learning style, provide note taking/test taking techniques, and offer math preparation strategies. This course does not count toward the A.A., A.S., A.A.S., or A.G. S. degree.

**Prerequisite:** MTH010 Basic Arithmetic with a minimum grade of "C" or better or satisfactory course placement assessment scores

MTH 030 Elementary Algebra 3 Cr Hrs
Introduction to variables, properties of real numbers, polynomials, solving linear and quadratic equations and graphing linear equations. This course does not count toward AS, AA, AGS or

**Prerequisite:** Minimum grade of "C" or better in MTH020 Math Fundamentals or satisfactory course placement assessment scores

### MTH 101 Intermediate Algebra

3 Cr Hrs

Simplifying algebraic expressions. Solving equations and word problems involving linear and quadratic polynomials, rational expressions, rational exponents and radicals. Graphing linear and quadratic functions. Students must furnish their own TI-83 or TI-84 PLUS graphing calculators. This course does not count toward AS, AA, AGS or AAS degrees to fulfill a math requirement. **Prerequisites:** Minimum grade of "C" or better in MTH030 Elementary Algebra or satisfactory course placement assessment scores

#### MTH 102 Intermediate Algebra With Review

5 Cr Hrs

Introduction to variables, properties of real numbers, polynomials, solving linear and quadratic equations, and graphing linear queations. Students must furnish their own TI-83 or TI-84 PLUS graphing calculators. *This course does not count toward the A.A., A.S., A.A.S., or A.G. S. degree.* **Prerequisites:** Minimum grade of "C" or better in MTH020 Math Fundamentals or satisfactory course placement assessment scores

# MTH111 College Algebra with Review

5 Cr Hrs

This course is an introduction of algebraic functions and some transcendental functions with application in business and life, natural and social sciences. Topics include solving equations, zeros, rational functions, matrices, exponentials and logarithms and systems. Additional topics are included as time permits. Students must furnish their own TI-83 or TI-83 PLUS graphing calculators.

**Prerequisites:** A minimum grade of "C" or better in MTH101 Intermediate Algebra or MTH102 Intermediate Algebra with Review or satisfactory course placement assessment scores

#### MTH 112 College Algebra

3 Cr Hrs

This course is an introduction of algebraic functions and some transcendental functions with application in business and life, natural and social sciences. Topics include solving equations, zeros, rational functions, matrices, exponentials and logarithms and systems. Additional topics are included as time permits. Students must furnish their own TI-83 or TI-83 PLUS graphing calculators.

**Prerequisites:** Minimum grade of "C" or better in MTH 101 Intermediate Algebra or satisfactory course placement assessment scores

#### MTH 113 Trigonometry

3 Cr Hrs

Trigonometric functions using the unit circle and right angle trigonometry, graphing applications, analytic trigonometry, vectors, trigonometric complex number applications, parametric and polar equations. Students must furnish their own TI-83 or TI-83PLUS graphing calculators.

**Prerequisite:** Minimum grade of "C" or better MTH 112 College Algebra or satisfactory course placement scores

#### **MTH 115 Pre-Calculus Mathematics**

5 Cr Hrs

This course is an introduction to function theory, algebraic and trigonometric functions and selected topics such as matrices, probability and statistics. This course requires that the student furnish their own TI-83 or TI-84 PLUS graphic calculator.

**Prerequisite:** MTH113 Trigonometry with a minimum grade of "C" or better or satisfactory course placement assessment scores

# MTH 120 Elementary Statistics

3 Cr Hrs

As an introduction to frequency distributions, measures of central tendency, sampling distributions, T-test and chisquare test, hypotheses' testing and correlation coefficients. This course requires that students furnish their own TI-83 or TI-84 PLUS graphing calculator. **Prerequisite:** Minimum grade of a "C" or better in MTH 112 College Algebra

#### MTH 125 Calculus I

5 Cr Hrs

Differentiation and integration of the algebraic, logarithmic and exponential functions. Applications to physical, social, life and business sciences. Students must furnish their own TI83 or TI-84 Series graphing calculators.

**Prerequisite:** Minimum grade of "C" or better in MTH 113 Trigonometry, or minimum grade of "C" or better in MTH 112 College Algebra with recent trigonometry in high school or satisfactory course placement assessment scores

#### MTH 150 Calculus II

5 Cr Hrs

An extension of MTH 125 Calculus I with topics to include advanced integration techniques, sequences and series, length, area and volumes. Application includes business and life, natural and social sciences. Students must furnish their own TI-83 or TI-84 PLUS graphing calculators. **Prerequisite:** A minimum grade of "C" or better in MTH 125 Calculus I

# N

# **NDT 100 Penetrant Inspection**

2 Cr Hrs

Students master the competencies associated with liquid penetrant testing at Level I and Level II. This course adheres to the standards developed by the American Society for Nondestructive Testing (ASNT). Laboratory work parallels lecture materials from the classroom. **Prerequisite:** NDT104 Materials and Processes for NDT Technology

### NDT 101 Magnetic Particle Testing Method for NDT

3 Cr Hrs

In this course students will master the competencies associated with the Magnetic Particle Testing method at Level I and Level II. This course adheres to the standards developed by the American Society for Nondestructive Testing (ASNT). Laboratory work will parallel lecture materials from the classroom.

**Prerequisite:** NDT100 Penetrant Inspection

#### NDT 102 Radiographic Testing Method I

3 Cr Hrs

In this course students will master the competencies associated with Radiographic Testing at

Level I. This course adheres to the standards developed by the American Society for Nondestructive Testing (ASNT). Laboratory work will parallel lecture materials from the classroom.

# NDT 103 Radiographic Testing Method II

3 Cr Hrs

In this course students will master the competencies associated with Radiographic Testing at Level II. This course adheres to the standards developed by the American Society for Nondestructive Testing (ASNT). Laboratory work will parallel lecture materials from the classroom.

**Prerequisite:** NDT102 Radiographic Testing Method I

# NDT 105 Computed Radiographic Imaging

3 Cr Hrs

This course provides students with the knowledge and skills needed to utilize computed radiographic imaging materials and equipment in the manufacturing, aerospace, transportation, energy, and refinery environment. Students will learn to utilize the different type's radiographic imaging equipment, measuring tools, imaging enhancing devices, and storage and transfer functions. Students will learn to operate computer radiography equipment and perform operator maintenance and process controls. Upon completion of the course the student will be able to perform all function of computed radiographic imaging to industry standards. **Prerequisite:** NDT 102 Radiographic Testing Method I

#### NDT 110 Eddy Current Level I

3 Cr Hrs

In this course students will master the competencies associated with electromagnetic (Eddy Current) testing at with Level I. This course adheres to the standards developed by the American Society for Nondestructive Testing (ASNT). Laboratory work will parallel lecture materials from the classroom.

# NDT 111 Eddy Current Level II

3 Cr Hrs

In this course students will master the competencies associated with electromagnetic (Eddy Current) testing at Level II. This course adheres to the standards developed by the American Society for Nondestructive Testing (ASNT). Laboratory work will parallel lecture materials from the classroom.

Prerequisite: NDT110 Eddy Current Level I

#### NDT 112 Ultrasonic Testing Method – Level I

3 Cr Hrs

In this course, students will master the competencies associated with Ultrasonic Testing Methods at Level I. This course adheres to the standards developed by the American Society for Nondestructive Testing (ASNT). Laboratory work will parallel lecture materials from the classroom.

# NDT 113 Ultrasonic Testing Method – Level II

3 Cr Hrs

In this course, students will master the competencies associated with Ultrasonic Testing Methods at Level II. This course adheres to the standards developed by the American Society for

Nondestructive Testing (ASNT). Laboratory work will parallel lecture materials from the classroom.

Prerequisite: NDT112 Ultrasonic Testing Method Level I

## NDT 114 Visual Inspection

3 Cr Hrs

In this course, students will master the competencies associated with Visual Inspection. This course adheres to the standards developed by the American Society for Nondestructive Testing (ASNT). Laboratory work will parallel lecture materials from the classroom.

# NDT 115 Introduction to Ultrasonic C-Scan & Phased Array 3 Cr Hrs

This course provides students with the knowledge and skills needed to utilize Ultrasonic C-Scan and Phased Array inspection materials and equipment in the manufacturing, aerospace, transportation, energy, and refinery environment. Students will learn to utilize the different type's Ultrasonic C-Scan and Phased Array materials and equipment, interpret the test results and apply those to industry-specific scenarios.

**Prerequisite:** NDT112 Ultrasonic Testing Method Level I & NDT113 Ultrasonic Testing Method Level II

# NDT 116 Bond Testing for NDT

2 Cr Hrs

This course is designed to provide students with the classroom and laboratory experience which will prepare them to perform bond testing on composite and conventional aviation parts/assemblies. Topics will include materials, equipment and bond testing methods. Laboratory experiences will include selecting and performing bond testing on various types of composite and mechanical parts/assemblies.

Prerequisite: NDT110 Eddy Current Level I or NDT112 Ultrasonic Testing Method Level I

#### NDT 120 Ultrasonic Phased Array II

2 Cr Hrs

This course provides students with the knowledge and skills needed to utilize Ultrasonic Phased Array inspection materials and equipment in the manufacturing, aerospace, transportation, energy, and refinery environment. Students will learn to utilize the different type's Ultrasonic Phased Array materials and equipment, interpret the test results and apply those results to industry-specific scenarios. Students will master techniques for the phased array shear wave inspection of welds to ASTM, ASME, and Aviation standards. Students will learn to display inspection results in A-Scan, S-Scan, and C-Scan formats simultaneously while using overlays for correct defect identification and location.

**Prerequisite:** NDT112 Ultrasonic Testing Method Level I & NDT113 Ultrasonic Testing Method Level II

# NDT 125 Phased Array Time of Flight Diffraction (TOFD) 2 Cr Hrs

This course provides students with the knowledge and skills needed to utilize Ultrasonic Time of Flight Diffraction (TOFD) technique materials and equipment in the manufacturing, aerospace, transportation, energy, and refinery environment. Students will learn to utilize the different type's TOFD materials and equipment, interpret the test results, size internal flaws, and apply those results to industry-specific scenarios. Students who complete this course should have

sufficient background to utilize the Ultrasonic Phased Array TOFD technique used in many industries.

Prerequisite: NDT112 Ultrasonic Testing Method Level I & NDT113 Ultrasonic Testing Method Level II

#### NDT 150 Vibration Analysis Level I

3 Cr Hrs

Provides an introduction to Vibration Analysis. The student focuses on learning vibration analysis terminology, measurement units, principles, hardware, and software. The course also gives a functional understanding of machinery basics. Students will demonstrate proficiency in data collection and fundamental of analysis.

# NDT 151 Vibration Analysis Level II

3 Cr Hrs

This course reviews and expands on the knowledge obtained in Vibration Analysis I. The students will use calculations, graphs, and charts to demonstrate their ability to understand the theories and application of vibration analysis. Students will become familiar with the many different tools, software, and accessories necessary to provide good vibration analysis to a customer. The students will gain more knowledge in the proper way to collect and analyze data.

# NDT 152 Vibration Analysis Level III

3 Cr Hrs

This course is designed to provide the student with the ability to design or manage a vibration program, to evaluate an outside vibration analysis program, to integrate other predictive technologies into their program, and to provide in-depth analysis to an existing vibration analysis program. A level III vibration analyst may also be called upon to provide on-the-job training to new hires within a company.

#### NDT 155 Thermography Level I

3 Cr Hrs

The course provides an introduction to the principles of Thermography and the operation of infrared equipment in realistic scenarios. The student focuses on learning the modes of heat transfer, radiosity. The student will gain proficiency in identifying acceptable and rejectable images, optimizing images, and selecting the best image perspective to capture required data. Students will also demonstrate the knowledge and ability to perform image storage and recall, report writing, and quality reporting.

#### NDT 156 Thermography Level II

3 Cr Hrs

This course expands upon the topics covered in Thermography I and goes deeper into data analysis. Students will learn the functionality of thermal cameras, keys to capturing good thermal images, data storage, and reporting. Students will use mathematical formulas to calculate heat transfer rates associated with the laws of thermodynamics.

#### NDT 157 Thermography Level III

3 Cr Hrs

Thermography III is designed to provide the student with the ability to design or manage an infrared program, to evaluate outside infrared services, to integrate other predictive technologies into their program, and to provide in-depth analysis to an existing infrared program. A level III

thermographer may also be called upon to provide on-the-job training to new hires within a company.

# NDT 160 Acoustic Emission Testing Level I

3 Cr Hrs

In this course students will master the competencies associated with the Acoustic Emission Testing Method at Level I and Level II. This course adheres to the standards developed by the American Society for Nondestructive Testing (ASNT). Laboratory work will parallel lecture materials from the classroom.

#### NDT 165 Machine Lubrication and Analysis I

3 Cr Hrs

Machine Lubrication and Analysis I provides an introduction to machine lubrication and the techniques used to analyze lubricating fluids. The student focuses on machine failure modes and the role of lubrication in asset health, preventive, and predictive maintenance. The student learns the fundamentals of tribology, chemical composition of lubricating fluids, and various types of lubricating systems. Students will demonstrate proper lubricant application in various situations.

#### NDT 166 Machine Lubrication and Analysis II

3 Cr Hrs

Machine Lubrication and Analysis II provides a more in-depth look at machine lubrication and the techniques used to analyze lubricating fluids. The student focuses on machine failure modes and the role of lubrication in asset health, preventive, and predictive maintenance. The student learns the fundamentals of tribology, chemical composition of lubricating fluids, and various types of lubricating systems. Students will demonstrate proper lubricant application in various situations.

# NDT 167 Machine Lubrication and Analysis III

3 Cr Hrs

Machine Lubrication and Analysis III is designed to provide the student with the ability to design or manage an oil analysis program, to evaluate outside oil analysis services, to integrate other predictive technologies into their program, and to provide in-depth analysis to an existing oil analysis program. A level III oil analyst may also be called upon to provide on-the-job training to new hires within a company.

#### NDT 170 Electrical Motor Testing

2 Cr Hrs

This course will teach students to use a PdMA MCEmax tester to evaluate the condition of electric motors, motor circuits, and the associated components. Students will learn the basics of electrical circuits, electrical theory, and motor construction. This course will take the student through the process from hooking up the tester, to analyzing the data, and making repair recommendations.

# NOX 020 Theoretical Applications of Nitrous Oxide for the Dental Assistants 0 Cr Hrs

This one-day course is designed to prepare dental assistants to safely administer and monitor nitrous/oxygen inhalation sedation. After successful completion of the course, the dental assistant receives a Certificate of Course Completion.

**Prerequisite:** All participants must be currently affirmed in CPR and meet at least one of the following requirements: Certified Dental Assistant, graduate of a formal dental assistant education program or 3 years of work experience as a dental assistant. Each participant will complete a written examination with a minimum proficiency of 75% to demonstrate that the course objectives are met.



# OPM 105 Operations Management for Organizational Success 3 Cr Hrs

Operations Management introduces and applies the components of the continuous improvement philosophy and process to the operations of organizations. The study of dynamic management involvement and the use of continuous evaluation tools are reviewed and applied. These include applied management techniques and statistical measures of business processes.

# OPM 110 Introduction to Supply Chain Management 3 Cr Hrs

Supply Chain Management introduces the building blocks of Supply Chain Strategy and the relationship with SC corporate strategy. Defines the elements of Supply Chain Management, including the importance of collaboration and partnering in a competitive business environment. Discusses the need for measures to manage the business and how the financial aspects are affected by SCM. Discusses outsourcing and why companies outsource to remain competitive.

# OPM 115 Introduction to Project Management

This course focuses on a holistic approach to project management. The content deals with planning, scheduling, organizing, and controlling projects—for example, product development, construction, information systems, new businesses, and special events. The course includes major topics of Strategy, Priorities, Organization, Project Tools, and Leadership. Primary class emphasis is on the project management process and tools. Project management is becoming more important in today's world. Mastery of key tools and concepts could give you a significant competitive advantage in the marketplace.



# **PDV 101 Learning Strategies**

1 Cr Hr

3 Cr Hrs

This course is designed to help the student learn effective study skills that enable the student to be academically successful. The student will learn how to make application of these skills in a course of study. The course will cover time management, goal setting, listening, note taking, test strategies, and online learning. It is recommended any student who has a GPA of 2.0 or lower upon initial enrollment of after his/her first semester of college course work enroll in the class. This course does not count toward an A.S., A.A., A.G.S., or A.A.S. degree.

#### **PDV 105 Global Professional Standards**

This course provides a study of human relations and professional development in today's rapidly changing world that prepares students for living and working in a complex society. Topics include: human relations skills, job acquisition skills, job retention skills, job advancement skills, and professional image skills.

#### **PED 110 Lifetime Fitness**

1 Cr Hr

Exposes students to facts about and experiences in dealing with motor, physical, physiological, psychological and nutritional aspects of the human being and the responsibility to maintain fitness during a life span.

PHL110 Ethics 3 Cr Hrs

A practical approach to recognizing, understanding and solving ethical problems confronting individuals in today's society. Basic concepts of applied ethical theories in moral philosophy and reasoning are examined using critical thinking and responsible decision-making skills.

PHL115 Logic 3 Cr Hrs

This course Deals with the uses of logical concepts and techniques to evaluate and criticize reasoning. Studies some elementary systems of formal logic. Arguments evaluated are drawn from such diverse fields as law, science, politics, religion, and advertising.

# PHS 110 Physical Science

5 Cr Hrs

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.

PHS 120 General Physics I 5 Cr Hrs
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. This class is taught in the fall.

# PHS 125 General Physics II

5 Cr Hrs

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.

# PNR 120 KSPN Foundations of Nursing

4 Cr Hrs

This course utilizes the nursing standards of practice based on principles of biology, psychosocial, spiritual and cultural to meet the needs of clients throughout the lifespan. Emphasis is placed on basic nursing skills, patient safety and therapeutic communication. Concepts and skills are enhanced in subsequent courses.

**Prerequisites:** CNA certificate, ALH110, BIO106, BIO150, CED115, PSY101, PSY120, CPR001

#### **PNR 121 KSPN Foundations of Nursing Clinical**

2 Cr Hrs

This course explores the art and science of nursing in this clinical course. Emphasis is placed on the nursing process, cultural and spiritual awareness, communication, data collection, performance of basic nursing skills, and documentation. Principles of safe medication administration are introduced.

**Prerequisites:** PNR120 (concurrent enrollment in PNR 122, 123, 124)

### PNR 122 KSPN Pharmacology

3 Cr Hrs

This course introduces the principles of pharmacology, drug classifications, and the effects of selected medications on the human body. The nursing process is used as the framework for ensuring safe and effective nursing care for clients across the lifespan.

**Prerequisites:** Concurrent enrollment in PNR120, 121,122,123

# PNR 123 KSPN Medical Surgical Nursing I

4 Cr Hrs

This course focuses on the effect of disorders of selected systems throughout the lifespan and applies the nursing process in meeting basic needs. Health promotion and maintenance, rehabilitation and continuity of care are emphasized. The role of the practical nurse is incorporated throughout.

**Prerequisites:** P-PNR124 – CR-(Concurrent enrollment in PNR120, 121,122,123)

#### PNR 124 KSPN Medical Surgical Nursing I Clinical

3 Cr Hrs

Simulated and actual care situation of selected systems throughout the life span, utilizing acute and long-term care settings. An emphasis is placed on critical thinking and clinical decisionmaking skills.

**Prerequisites:** PNR123 – CR-(Concurrent enrollment in PNR120, 121,122,123)

# PNR 126 KSPN Medical Surgical Nursing II

4 Cr Hrs

This course focuses on the effect of disorders of selected systems throughout the lifespan using the nursing process in meeting basic needs. Prevention, rehabilitation and continuity of care are emphasized. The role of the practical nurse is incorporated throughout.

**Prerequisites:** P-(successful completion of PNR120,121,122,123,124,127) - CR-(concurrent enrollment in PNR126,130,131,132,134,135)

# PNR 127 KSPN Medical Surgical Nursing II Clinical

This experience uses simulated and actual care situations of selected systems throughout the lifespan, utilizing acute and long-term care settings. An emphasis is placed on critical thinking and clinical decision-making skill development. Principles of leadership for the practical nurse will be implemented, as well as multi-task management skills for transition as a practical nurse.

**Prerequisites:** P-(successful completion of PNR120,121,122,123,124,127) - CR-(concurrent enrollment in PNR126,130,131,132,134,135)

#### PNR 130 KSPN Maternal Child Nursing

2 Cr Hrs

This course focuses on pre- and post-natal maternal nursing care, as well as, the care of children from infancy to adolescence. Emphasis is given to normal reproduction and frequently occurring biological, cultural, spiritual and psychosocial needs of the child-bearing and child-rearing family.

**Prerequisites:** P-(successful completion of PNR120, 121,122,123,124,131) - CR-(concurrent enrollment in PNR126, 132,134,135)

#### PNR 131 KSPN Maternal Child Nursing Clinical

1 Cr Hrs

This clinical course applies concepts from Maternal Child I. Emphasis is placed on the nursing process and meeting the basic needs of the maternal child client.

**Prerequisites:** P-(successful completion of PNR120, 121,122,123,124,131) - CR-(concurrent enrollment in PNR126, 132,134,135)

#### PNR 132 KSPN Gerontology Nursing

2 Cr Hrs

This course is designed to explore issues related to the aging adult using the nursing process as the organizing framework. Also discussed are the impact of ageism, alterations in physiological and psychosocial functioning, and the role of the practical nurse in caring for older adult clients. **Prerequisites:** P-(successful completion of PNR120, 121,122,123,124)

#### PNR 134 Role Development

2 Cr Hr

This course expands the leadership and management skills necessary for personal and career growth and development. Assignment, delegation, teamwork and conflict management are emphasized. Provides opportunities to acquire additional knowledge in areas of concern. Builds on areas of strength to improve chances of being successful on the National Council Licensure Examination (NCLEX- PN).

**Prerequisites:** P-(successful completion of PNR120, 121,122,123,124)

#### PNR 135 KSPN Mental Health Nursing

2 Cr Hrs

This course explores basic concepts and trends in mental health nursing. Therapeutic modalities and client behavior management are discussed. Emphasis is placed on using the nursing process and meeting the basic human needs of the mental health client.

**Prerequisites:** P-(successful completion of PNR120, 121,122,123,124)

#### PNR 136 Transition to Nursing

2 Cr Hrs

This course is designed to provide skills to enhance the success of the practical nurse student. 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.

**Prerequisites:** CNA certificate, ALH110, BIO106, BIO150, CED115, PSY101, PSY120, CPR001

#### PNR 170 Healthcare Practice Management

3 Cr Hrs

This course explores the overall perspective of health service organizations and the associated managerial role. The student will be able to utilize practical building blocks for managerial growth. The student will discuss the involvement of future roles for healthcare providers and outside forces that impact management of a healthcare component.

#### PNR 175 Healthcare Management Research

4 Cr Hrs

This course explores management issues, funding and actual provision of healthcare by various entities. The student will research and discuss the role of management in healthcare. The student will complete projects that expand on specific areas of individual interest in administration and management.

Prerequisites: Successfully completed all requirements for the technical certificate.

#### PNR 180 Healthcare Issues

3 Cr Hrs

This course explores current issues in healthcare and the impact of those issues on society. The student will discuss specific pieces of legislation, regulatory initiatives, public concern issues, funding and actual provision of healthcare by various entities. The student will complete projects that expand on specific areas of individual interest.

Prerequisites: Successfully completed all requirements for the technical certificate.

#### **POL 101 American Government**

3 Cr Hrs

A general study of the development, structure and functions of the American National Government. Topics to be studied include an introduction to government, principles of constitutionalism and federalism, political parties and political behavior, the Presidency, congress, the judiciary and the federal bureaucracy, Of specific emphasis is an analysis of decision-making in government, public participation and influence in government as well as a study of specific problems concerning the operation of the federal government.

#### **PSS 100 Six Sigma Yellow Belt**

1 Cr Hr

Six Sigma Yellow Belt training introduces the fundamentals of Six Sigma to individual process owners and operators who can then act as team members on Six Sigma projects. Not only do these Yellow Belts gain the skills necessary to identify, monitor and control profit-eating practices in their own processes, but they are also prepared to feed that information to Green Belts and Black Belts working on larger system projects.

#### PSS 101 Six Sigma Green Belt Methods

3 Cr Hrs

This course is designed to help the adult learner understand Six Sigma concepts and be able to apply their knowledge to a real problem. It also addresses the challenges of change management and data management.

# PSS 105 Six Sigma Green Belt Statistics

3 Cr Hrs

Students develop an in-depth understanding of how computers and statistical software are essential components in the business world and society in general for exploring data in-depth, using data simulation, screening data for errors, manipulating data, performing transformations and focusing on the use of the computer and statistical software as a valuable productivity and data analysis tool.

**Prerequisite:** PSS101 or consent

# **PSY 101 General Psychology**

3 Cr Hrs

A general introduction to the scientific study of human behavior as it applies to daily living. Course includes history, basic theories and biological bases of behavior, development, cognitive processes, individual awareness, motivation, emotion, personal adjustment, social psychology, and abnormal psychology and therapies.

# PSY 120 Developmental Psychology

3 Cr Hrs

A study of individual development from conception through death. This includes the general areas of biological, physical, cognitive, social, emotional and personality development at each stage of life.

Prerequisite: PSY101 General Psychology with a minimum grade of "C" or better





#### **ROB 100 Introduction to Robotics**

3 Cr Hrs

This course explores basic robotic concepts. Studies robots in typical application environments. Topics include: robot history and fundamentals, robot classification, power sources, robot applications in the workplace, robot control techniques, path control, end of arm tooling, robot operation and robot controllers, controller architecture in a system, robotic language programming, and human interface issues.

# ROB 101 Manufacturing Control & Work Cell Interfacing 2 Cr Hr

This course studies open and closed loop controls and cell level interfacing. Emphasizes human factors related to automated systems. Topics include: process control; sensors and interfacing; fluid pressure and level measurement; fluid flow instrument; instruments for temperature measurement; instruments for mechanical measurement; pneumatic controls; cell level interfacing; automatic control systems application; and human interface issues of operator training, acceptance, and safety.

**Prerequisite:** ROB 100 and IND 106 or departmental approval

# ROB 102 Work Cell Design Laboratory

1 Cr Hrs

This course allows students to work in instructor-supervised teams, assembling and operating an automated production system's cell. Students will select equipment, write specifications, design fixtures and interconnects, integrate systems/provide interfaces, and operate the assigned system. Topics include: work cell requirement analysis, work cell specifications, work cell assembly, work cell programming, work cell debugging/troubleshooting, and prototype or demonstration work cell operation.

Prerequisite: ROB101 or departmental approval

#### ROB 103 Applied Robotics Lab I

3 Cr Hrs

In this course students will learn basic robotic applications and devices utilized in automated systems. Using hands on step by step approach students will program different types of robots and interface the robots and controllers within parameters defined by the instructor and the application.

Prerequisite: ROB102 or departmental approval

#### ROB 104 Robotics Simulation

2 Cr Hrs

This course provides the student an introduction to robotic simulation using industry current software. Students will learn to build computer simulated models of robotic work cells.

**Prerequisite:** ROB100 or departmental approval

# ROB 106 Robotics Controller Maintenance 3 Cr Hrs

This course will provide the student with basic skills and techniques used in the maintenance and repair of robotic/automated equipment.

Prerequisite: ROB100 and IND106 or departmental approval

#### ROB 110 Applied Robotics Lab II

3 Cr Hr

In this course students will expand on their experiences from Applied Robotics Lab I. Students will further enhance the robotic applications and integration of PLC's and PC's to robot controllers.

**Prerequisite:** ROB103 or departmental approval

#### ROB 111 Advanced Robot Controller Programming

2 Cr Hrs

This course provides an opportunity for students to adapt robotic systems to specific manufacturing applications. Students will learn the file manipulation required to understand and program a complete robotic application. **Prerequisite:** ROB104 or departmental approval

# ROB 125 Advanced Industrial Workcell Programming 3 Cr Hrs

This course offers advanced skills and knowledge that are required to integrate, operate, program, troubleshoot, and maintain typical industrial work-cells that consist of robot controllers, programmable logic controllers (PLCs), and other support mechanisms. The course contents are based on the lower level robotics and electromechanical courses offered by the WATC robotics program.

**Prerequisite:** ROB110, ROB111, IND131 or departmental approval

## SAF 101 Safety Orientation/OSHA 10

1 Cr Hrs

This course provides a fundamental understanding of OSHA Safety for the Construction Industry. Students who successfully complete the course will be issued a Department of Labor (DOL) 10 hour card.

# SGT 101 Introduction to Surgical Technology

4 Cr Hrs

This course introduces the role and functions of proper documentation, post and preoperative case management, professional and self-management, professionalism, and work place management, scope of practice, patient care standards, death and dying issues, legal and ethics dilemma, risk management and safety, basic computer skills and electricity concepts.

Prerequisite: Program admission

#### SGT 107 Pharmacology for Surgical Technology

3 Cr Hrs

This course will provide general pharmacologic information, including how medications are measured, what kind of medications are used, what laws pertain to them, how they are labeled, how they are administered to the surgical patient, and an understanding of preoperative and intraoperative anesthesia as it relates to routine and emergency situations. **Prerequisite:** Successful completion of first semester courses.

#### SGT 115 Surgical Procedures I

4 Cr Hrs

SGT 115 Surgical Procedures I 4 Cr F
Coordinates study of theoretical and practical applications of various surgical procedures. Emphasis is placed on pathology, a methodical approach to surgical procedures and preparation and application of aseptic techniques with extensive laboratory experience to develop critical skills that are required to function in the operating-room environment.

Prerequisite: Program admission

# SGT 119 Surgical Technology - Clinical Experience I 4 Cr Hr

5 Cr Hrs

Students are assigned to supervised, non-remunerative clinical practice in hospital operating rooms approximately 24 hours per week. Emphasis is placed on basic surgical interventions. Includes rotations with circulator preceptor and through central processing, transportation team. **Prerequisite:** Successful completion of first semester courses.

#### SGT 120 Principles and Practices in Surgical Technology

Presents concepts necessary to prepare students for clinical experience. Aseptic technique and supplies and equipment are major components of this course.

**Prerequisite:** Program admission

# SGT 125 Surgical Procedures II

5 Cr Hrs

Coordinates study of theoretical and practical applications of various surgical procedures. Emphasis is placed on pathology, a methodical approach to surgical procedures and preparation and application of aseptic techniques with extensive laboratory experience to develop critical skills that are required to function in the operating room environment. **Prerequisite:** Successful completion of first semester courses.

# SGT 129 Surgical Technology Clinical Experience II 5 Cr Hrs

Students are assigned to supervised, non-remunerative clinical practice in hospital operating rooms approximately 24-27 hours per week. Emphasis is placed on basic and intermediate surgical interventions. Includes rotations through endoscopy and pre-operative holding units. **Prerequisite:** Successful completion of first semester courses.

# SGT 130 Surgical Technology Clinical Experience III 4 Cr Hrs

Students are assigned to supervised, non-remunerative clinical practice in hospital operating rooms approximately 24-27 hours per week. Emphasis is placed on basic, intermediate, and advanced surgical interventions. Includes rotations through labor and delivery, cardiac catheterization lab, and post anesthesia care unit.

**Prerequisite:** Successful completion of first semester courses.

# SGT 140 Principles & Practices in Surgical Technology Lab 3 Cr Hrs

Students will demonstrate concepts necessary to prepare students for clinical experience. Aseptic technique and supplies and equipment are major components of this course.

Prerequisite: Concurrent enrollment in SGT120 Principles & Practices in Surgical Technology

#### SGT 145 Surgical Technologist Exam Review

1 Cr Hrs

Comprehensive review of surgical technology concepts and practical preparation for the national certification examination.

Prerequisite: Successful completion of first semester courses.

# **SOC 101 Principles of Sociology**

3 Cr Hrs

An introductory study to acquaint students with the influence and patterns of individuals and group interaction by acquainting students with the development, characteristics and functioning of human groups, the relationships between groups and group influences on individual behavior. It includes the study of how social relationships are created, maintained and changed.

# SPH 101 Public Speaking

3 Cr Hrs

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.

# **SPH 111 Interpersonal Communication**

3 Cr Hrs

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.

T

# TAC 131 Structural Analysis & Damage I

2 Cr Hr

Through a variety of classroom and/or lab/shop learning and assessment activities, students in this course will: identify measuring procedures; analyze the basic structural damage conditions; identify the safety requirements pertaining to structural damage repair; analyze frame repair methods; analyze unibody inspection and measurement and identify procedures of welding for structural repair.

# TAC 132 Structural Damage Analysis & Damage II 2 Cr Hrs

Through a variety of classroom and/or shop/lab learning and assessment activities, students in this course will: apply safety requirements pertaining to structural damage repair; analyze frame inspection and repair procedures; determine direct and indirect damage for structural repair; analyze unibody inspection measurement, and repair procedures; perform welding techniques for structural repair; and identify cutting procedures for structural repair.

Prerequisite: TAC131 Structural Damage Analysis & Damage I.

# TAC 133 Structural Analysis & Damage III

3 Cr Hrs

3 Cr Hrs

Through a variety of classroom and/or shop learning and assessment activities, students in this course will; apply safety requirements pertaining to structural damage repair; perform welding and cutting techniques for structural repair; diagnose unibody direct and indirect damage; apply unibody inspection and measurement procedures; apply unibody repair procedures; apply frame inspection and measurement procedures; apply frame repair procedures; and remove fixed glass. **Prerequisite:** TAC132 Structural Damage Analysis & Damage II.

# TAC 134 Structural Analysis & Damage IV

Through a variety of classroom and lab/shop learning and assessment activities, students in this course will: apply safety requirements pertaining to structural damage repair; perform advanced welding and cutting techniques for structural repair; perform inspection and measurement of unibody for structural repair; repair unibody direct and indirect damage; perform frame inspection and measurement procedures; repair frame to industry standards; and remove and install fixed glass.

Prerequisite: TAC133 Structural Damage Analysis & Damage III

# TAC 141 Paint & Refinishing I

3 Cr Hrs

Through a variety of classroom and/or shop/lab learning and assessment activities, students in this course will: identify safety and personal health hazards according to OSHA guidelines and the "Right to Know" law; determine the different types of substrates and sanding materials relevant to autobody surface preparation; identify the process to clean and prepare a substrate for paint; distinguish between the properties, uses and manufacturer specifications of metal treatments and primers; distinguish among the various types of spray guns and equipment; explore various paint codes and specifications for use; identify the various paint systems; explore the types of paint defects; distinguish between damage and non-damage related corrosion; and identify final detail procedures.

# TAC 142 Paint & Refinishing II

3 Cr Hrs

Through a variety of classroom and/or shop/lab learning and assessment activities, students in this course will: select proper personal protective equipment; perform proper shop operations according to OSHA guidelines; remove paint coatings; apply corrosion resistant coatings; demonstrate proper spray gun operation and cleaning procedures; select proper painting and substrate materials for projects; analyze paint defects, causes and cures; repair paint defects; measure paint mil thickness; and determine final detail procedures for given projects.

Prerequisite: TAC141 Paint & Refinishing I.

# TAC 143 Paint & Refinishing III

3 Cr Hrs

Through a variety of learning and/or shop/lab learning and assessment activities, students in this course will: identify safety and personal health hazards according to OSHA guidelines and the "right to Know" law; determine the different types of substrates and sanding materials relevant to autobody surface preparation; identify the process to clean and prepare a substrate for paint; distinguish between the properties, uses and manufacturer specifications of metal treatments and primers; distinguish among the various types of spray guns and equipment; explore various paint codes and specifications for use; identify the various paint systems; explore the types of paint defects; distinguish between damage and non-damage related corrosion; and identify final detail procedures.

**Prerequisite**: TAC142 Paint & Refinishing II

#### TAC 144 Paint & Refinishing IV

4 Cr Hrs

Through a variety of classroom and/or shop/lab learning and assessment activities, students in this course ill: apply exemplary safety procedures in all areas of auto body painting and refinishing; perform proper cleaning procedures for a refinish; prepare adjacent panels for blending; prepare plastic panels for refinishing; protect all non-finished areas of vehicle; operate high and low volume/pressure spray gun operations for painting and refinishing; perform all paint system applications on an automobile; apply appropriate paint color matching and mixing procedures; tint color using formula to achieve a blendable match; explore the causes, effects and correction of buffing-related imperfections; explore the causes, effects and correction of pigment flotation; measure mil thickness; apply decals, transfers, tapes, woodgrains, pinstripes to an automobile; apply buffing and polishing techniques to remove defects; apply cleaning techniques

to automobile interior, exterior, glass and body openings; and remove overspray. **Prerequisite:** TAC143 Paint & Refinishing III.

# TAC 151 Nonstructural Analysis & Damage I 4 Cr Hrs

Through a variety of classroom and/or shop/lab learning and assessment activities, students in this course will: explore the components of safety pertaining to auto collision and repair; explore the parts and construction of vehicles; explore opportunities in the auto collision industry; identify metal straightening techniques; identify the application and use of body fillers; demonstrate proper use, set-up and storage of welding equipment; distinguish between weldable and non-weldable materials; demonstrate fundamental industry standard recommended welds; identify plastics and adhesives used in automotive industry; explain the general purpose of damage, estimation and repair orders; explore the processes required for outer body panel repairs, replacements and adjustments; and demonstrate fundamental cutting procedures.

# TAC 152 Nonstructural Analysis & Damage II 4 Cr Hrs

Through a variety of classroom and /or lab/shop learning and assessment activities, students in this course will: identify trim and hardware to be protected; examine what to consider when working with movable glass; perform outer body panel repairs; perform outer body replacements and adjustments; perform metal straightening techniques; perform body filing techniques; perform metal finishing techniques; use welding procedures in non-structural damage repair; distinguish between mechanical and electrical components; apply safety standards for the collision repair industry; use cutting procedures in non-structural damage repair; and determine procedures necessary for working with plastics and adhesives. **Prerequisite:** TAC151 Nonstructural Damage Analysis & Damage I

# TAC 153 Nonstructural Analysis & Damage III 4 Cr Hrs

Through a variety of classroom and/or lab/shop learning and assessment activities, students in this course will: remove and install trim and hardware; determine process and procedures necessary for movable glass repair; repair outer body panel; replace and adjust outer body panels; remove and install mechanical and electrical components; demonstrate safety protocol appropriate for the auto repair setting; perform intermediate welding skills on non-structural damage repairs; and perform plastic and adhesive repairs.

Prerequisite: TAC152 Nonstructural Damage Analysis & Damage II

# TAC 154 Nonstructural Analysis & Damage IV 5 Cr Hrs

Through a variety of classroom and shop/lab learning and assessment activities, students in this course will: remove trim and hardware; install trim and hardware; repair movable glass; protect adjacent body panels; repair outer body panel; replace outer body panels; adjust outer body panels; replace mechanical and electrical components; demonstrate safety protocol appropriate for the auto repair setting, perform welding skills on non-structural damage repairs; and perform plastic and adhesive repairs.

Prerequisite: TAC153 Nonstructural Damage Analysis & Damage III

Through classroom and/or lab/shop learning and assessment activities, in this course students will: determine how to diagnose steering and suspension; diagnose electrical concerns; complete headlamp and fog/driving lamp assemblies and repairs; demonstrate selfgrounding procedures for handling electronic components; determine diagnosis, inspection and service needs for brake system hydraulic components; examine components of heating and air conditioning systems; determine the inspection, service and repair needs for collision damaged cooling system components; distinguish between the under car components and systems; and determine the diagnosis, inspection and service requirements of active and passive restraint systems.

# TAS 121 Engine Repair

4 Cr Hrs

This course contains competencies that can be used in their entirety within a single course or as needed for courses designed by a Kansas institution as Institutional Flexible Credit. Through a variety of learning and assessment activities students can: explore the theory and operation of internal combustion engine; demonstrate the ability to remove an automotive engine; demonstrate the ability to install an automotive engine; demonstrate the basic ability to inspect and repair cylinder head, valve trains and timing defects; demonstrate the ability to disassemble short block; demonstrate the ability to repair short block; demonstrate the ability to reassemble short block; demonstrate the basic ability to inspect and repair engine lubrication; demonstrate the basic ability to inspect and repair engine cooling systems; inspect a cylinder head and valve train; repair a cylinder head and valve train; perform advanced level engine diagnosis.

# TAS 123 Suspension & Steering Systems

4 Cr Hrs

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.

#### TAS 124 Electrical & Electronic Systems I

3 Cr Hrs

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.

#### TAS 125 Electrical & Electronic Systems II

5 Cr Hrs

In this course students will: Perform battery diagnosis; perform battery service; perform starting system diagnosis; perform starting system repair; perform charging system diagnosis; perform charging system repair; identify current flow on starting and charging system diagrams through a variety of learning and assessment activities.

# TAS 126 Manual Transmission/Transaxle & Drive Train 4 Cr Hrs

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

# TAS 127 Automatic Transmission Repair

4 Cr Hrs

This course contains competencies that can be used in their entirety within a single course or as needed for courses designed by a Kansas institution as Institutional Flexible Credit. Through a variety of learning and assessment activities students can: explore the concept of theory and operation of automatic transmissions/transaxles; perform maintenance on an automatic transmission/transaxle; diagnose automatic transmission/transaxles; inspect automatic transmission/transaxles; remove and reinstall automatic transmission; remove and reinstall automatic transmission and components; disassemble automatic transaxles and components; inspect automatic transaxles and components; repair automatic transmission and components; repair automatic transaxles and components; reassemble automatic transaxles and components;

# TAS 128 Heating & Air Conditioning

4 Cr Hrs

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

and related controls; perform fundamental repairs of operating systems and related controls; perform complex diagnostics of A/C Systems; document complex heating and air conditioning system concerns; perform complex diagnostics of refrigeration system components; perform complex repairs of refrigeration system components; perform complex diagnostics of heating, ventilation, and engine cooling systems.

# TAS 131 Engine Performance I

3 Cr Hrs

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.

## TAS 132 Engine Performance II

5 Cr Hrs

This course contains competencies that can be used in their entirety within a single course or as needed for courses designed by a Kansas institution as Institutional Flexible Credit. Through a variety of learning and assessment activities students can: analyze engine mechanical integrity; analyze fuel system concerns; analyze ignition system concerns; analyze induction system concerns; analyze exhaust system concerns; service fuel system concerns; repair fuel system concerns; service ignition system concerns; repair ignition system concerns; service induction system concerns; service exhaust system concerns; repair induction system concerns; repair exhaust system concerns.

**Prerequisite:** TAS131 Engine Performance I

#### TAS 133 Automotive Brake Systems I

3 Cr Hrs

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

1 Cr Hr

TAS 134 Automotive Brake Systems I I

In this course students will: Determine necessary brake system correction; Conduct system pressure tests utilizing service specifications; Perform diagnosis and correction for poor stopping, pulling or dragging concerns caused by malfunctions in the hydraulic system; Conduct inspection, fabrication and/or replacement of brake lines and hoses; Diagnose poor stopping noise vibration, pulling, grabbing, dragging or pedal pulsation concerns; Perform service

specifications pertaining to the removal, cleaning and refinishing procedures on brake drums; Perform drum brake repair and replacement procedures; Diagnose poor stopping noise vibration, pulling, grabbing, dragging or pedal pulsation concerns; Perform disc brake repair and replacement procedures; Machine rotor according to service specifications; Perform caliper piston retraction where applicable; Inspect and test power assist systems; Determine necessary action on wheel bearing noise, wheel shimmy and vibration concern diagnoses; Perform the removal, inspection and replacement of bearing and hub assemblies through a variety of classroom and lab/shop learning and assessment activities.

Prerequisite: TAS133 Automotive Brake Systems I

# TAS 135 Automotive Computer Systems 3 Cr Hr

In this learning plan students will: Receive classroom and laboratory instruction in the operation, diagnosis, service and repair of automotive computer systems. This includes the following computer systems: engine, transmission, air bag, heating and air conditioning, anti-lock brake/traction control/stability control, and driver assistance system.

Prerequisite: TAS 125 Electrical & Electronic Systems II and TAS 132 Engine Performance II

| U            |  |  |
|--------------|--|--|
|              |  |  |
| V            |  |  |
|              |  |  |
| $\mathbf{W}$ |  |  |
|              |  |  |
| X            |  |  |
|              |  |  |
| Y            |  |  |
|              |  |  |
| Z            |  |  |
|              |  |  |