



OCCUPATIONAL TECHNOLOGY

Air Conditioning, Heating, & Refrigeration Technology—TC

Division of Occupational Technology

Jobs in refrigeration and air conditioning installation, maintenance, service, sales and operation can be found in every aspect of the commerce, industry, and home ownership. The skills obtained from this program will prepare you for jobs ranging from that of the semi-skilled worker who performs the operational and maintenance tasks, to a plant superintendent who is responsible for the operation and maintenance of mechanical systems that may cost several million dollars.

An obstacle that lies in the path of the individual who hopes to acquire the needed basic and technical education to qualify for a good job in refrigeration and air conditioning is the fact that this is an industry with many specialized branches. In fact, the field is so broad that no one person could encompass it in its entirety. For this reason, the ambitious individual who seeks a career in this field should acquire a basic education that will form a solid foundation for the technical education needed to qualify for a good job.

This technical certificate can be applied toward an Associate of Applied Science in General Technology degree.

TECHNICAL CERTIFICATE AIR CONDITIONING, HEATING, & REFRIGERATION TECHNOLOGY

Total Program = 34 Credit Hours

The fourth digit in the course number indicates the number of credit hours.

Requirements—34 HOURS

ACR	1103	Electrical Motors & Components
ACR	1203	Gas Heating Systems
ACR	1204	Electric Circuits and Controls
ACR	2102	Air Distribution
ACR	2204	Materials
ACR	2304	Air Conditioning & Refrigeration Systems
ACR	2404	Air Conditioning & Refrigeration Components
COM	1003	Career Communications
IET	1002	Introduction to General Electronics I
IET	2002	Introduction to General Electronics II
MATH	1013	Technical Mathematics A (or higher)

Department

Air Conditioning
Air Conditioning
Air Conditioning
Air Conditioning
Air Conditioning
Air Conditioning
Air Conditioning
Career Communications
Industrial Electronics
Industrial Electronics
Mathematics





Air Conditioning, Heating, & Refrigeration Technology—CP

Division of Occupational Technology

CERTIFICATE OF PROFICIENCY AIR CONDITIONING, HEATING, & REFRIGERATION TECHNOLOGY

Total Program = 10 Credit Hours

The fourth digit in the course number indicates the number of credit hours.

Requirements—10 HOURS

ACR	2102	Air Distribution
ACR	2204	Materials
ACR	2404	Air Conditioning & Refrigeration Components

Department

Air Conditioning
Air Conditioning
Air Conditioning

Auto Body Repair—TC

Division of Occupational Technology

The work of the auto body technician consists of those jobs that require knowledge of automotive construction and a relatively high degree of manual dexterity. Students enrolled in this department will become skilled in frame alignment, removing dents, replacing damaged parts, painting, and glass installation. Upon completion of this course, employment may be obtained in the field as an auto body technician, insurance adjuster, and paint representative for a major paint company, or body shop owner.

TECHNICAL CERTIFICATE AUTO BODY REPAIR

Total Program = 34 Credit Hours

The fourth digit in the course number indicates the number of credit hours.

Requirements—34 HOURS

ABR	1103	Basic Automotive Body and Frame Alignment
ABR	1113	Introduction to Auto Body
ABR	1203	Collision Diagnostics and Estimating
ABR	1303	Basic Automotive Metal Repair
ABR	2103	Automotive Mechanical Components
ABR	2113	Automotive Refinishing Techniques
ABR	2203	Automotive Refinishing Preparation
ABR	2303	Special Automotive Body Material
COM	1003	Career Communications
IET	1002	Introduction to General Electronics I
IET	2002	Introduction to General Electronics II
MATH	1013	Technical Mathematics A (or higher)

Department

Auto Body Repair
Auto Body Repair
Auto Body Repair
Auto Body Repair
Auto Body Repair
Auto Body Repair
Auto Body Repair
Auto Body Repair
Career Communications
Industrial Electronics
Industrial Electronics
Mathematics





Auto Body Repair—CP

Division of Occupational Technology

CERTIFICATE OF PROFICIENCY AUTO BODY REPAIR

Total Program = 9 Credit Hours

The fourth digit in the course number indicates the number of credit hours.

Requirements—9 HOURS

ABR	1103	Basic Automotive Body and Frame Alignment
ABR	1113	Introduction to Auto Body
ABR	1303	Basic Automotive Metal Repair

Department

Auto Body Repair
Auto Body Repair
Auto Body Repair

Automotive Technology—TC

Division of Occupational Technology

The Automotive Technology program is designed to give students a working knowledge in the ever expanding field of automobile service and repair. This field has become so specialized and technical that demand for trained technicians increases daily.

The instruction, course of study, facilities, and equipment of this institution have been evaluated by the National Automotive Technicians Education Foundation (NATEF) and meet the National Institute for Automotive Service Excellence (ASE) standards of quality for the training of automobile technicians. We are certified in all eight areas of automotive technology.

The shop is equipped with state of the art diagnostic equipment and the latest in technical publications to enhance student training. Graduates of this program may find employment as technicians in specialty shops, independent garages, fleet garages, and auto dealerships.

TECHNICAL CERTIFICATE AUTOMOTIVE TECHNOLOGY

Total Program = 49 Credit Hours

The fourth digit in the course number indicates the number of credit hours.

Requirements—49 HOURS

AST	1203	Automatic Transmissions
AST	2103	Brakes
AST	2203	Suspension and Steering
AST	2303	Automotive Electrical Applications
AST	2403	Manual Transmissions/Transaxles
AST	2503	Engine Performance I
AST	2603	Engine Performance II
AST	2703	Automotive Climate Control
AST	2803	Engine Rebuild

Department

Automotive Technology
Automotive Technology
Automotive Technology
Automotive Technology
Automotive Technology
Automotive Technology
Automotive Technology
Automotive Technology
Automotive Technology





AST	2412	Manual Transmissions/ Transaxles Lab	Automotive Technology
AST	2373	Automotive electrical/ Climate Control Lab	Automotive Technology
AST	2523	Engine Performance/ Automotive Transmissions Lab	Automotive Technology
AST	2802	Engine Rebuild Lab	Automotive Technology
AST	2122	Brakes/Suspension and Steering	Automotive Technology
COM	1003	Career Communications	Career Communications
IET	1002	Introduction to General Electronics I	Industrial Electronics
IET	2002	Introduction to General Electronics II	Industrial Electronics
MATH	1013	Technical Mathematics A (or higher)	Mathematics

Automotive Technology—CP

Division of Occupational Technology

CERTIFICATE OF PROFICIENCY AUTOMOTIVE TECHNOLOGY

Total Program = 9 Credit Hours

The fourth digit in the course number indicates the number of credit hours.

Requirements—9 HOURS

AST	2103	Brakes
AST	2703	Automotive Climate Control
AST	2403	Manual Transmissions/ Transaxles

Department

Automotive Technology
Automotive Technology
Automotive Technology

Computerized Machining Technology—TC

Division of Occupational Technology

The Computerized Machining Technology program will provide the student with the knowledge for designing, prototyping, and the manufacturing of machined parts. You will gain valuable skills in a fascinating trade. Computerized Machining Technology training offers the chance to gain job-ready abilities for an engaging career that can provide a real sense of pride and accomplishment. By becoming skilled at working with computer numerical control (CNC) machine technologies, you could soon be making tools, dies, molds, and other objects using 3-D printing, high-tech lathes or milling equipment. It's an opportunity to learn one of today's most appealing and dependable trades. SolidWorks and MasterCam software will be used in designing parts, and machines such as lathes and mills will be used in their manufacture.





TECHNICAL CERTIFICATE COMPUTERIZED MACHINING TECHNOLOGY

Total Program = 34 Credit Hours

The fourth digit in the course number indicates the number of credit hours.

Requirements—34 HOURS

CMT	1003	Master Cam I
CMT	1103	Prototyping I
CMT	1203	Basic Machining
CMT	2003	Master Cam II
CMT	2103	Prototyping II
CMT	1602	Manufacturing Processes
CMT	2703	Advanced Machining
CMT	2213	Advanced Computer Numeric Control Machining
CMT	2303	Computer Numeric Control Machining
CMT	1402	Manufacturing Materials
COM	1003	Career Communications
MATH	1013	Technical Mathematics A (or higher)

Department

Comp Machining Tech
Comp Machining Tech
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Comp Machining Tech
Comp Machining Tech
Comp Machining Tech
Comp Machining Tech
Comp Machining Tech
Comp Machining Tech
Comp Machining Tech
Career Communications
Mathematics

Computerized Machining Technology—CP

Division of Occupational Technology

CERTIFICATE OF PROFICIENCY COMPUTERIZED MACHINING TECHNOLOGY

Total Program = 9 Credit Hours

The fourth digit in the course number indicates the number of credit hours.

Advanced Classes offered but not required.

Requirements—9 HOURS

Choose 3 courses below:

CMT	1003	Master Cam I
CMT	1103	Prototyping I
CMT	1203	Basic Machining
CMT	2003	Master Cam II
CMT	2103	Prototyping II
CMT	2703	Advanced Machining
CMT	2213	Advanced Computer Numeric Control Machining
CMT	2303	Computer Numeric Control Machining
CMT	2113	Industrial Environment
CMT	2123	Concepts of Production

Department

Comp Machining Tech
Comp Machining Tech
Comp Machining Tech
Comp Machining Tech
Comp Machining Tech
Comp Machining Tech
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Comp Machining Tech





Diesel Technology—TC

Division of Occupational Technology

Students enrolled in the Diesel Technology Program will be trained in the repair and maintenance of heavy equipment, such as farm equipment, industrial equipment and heavy duty trucks. An increasing demand for mechanics in this field is due to the growth in diesel engines used in everyday vehicles, mobile equipment and farming equipment. Students completing this course should be qualified to find employment in the following areas: farm equipment dealerships, heavy truck dealerships, industrial equipment dealerships, independent truck shops, independent diesel mechanics shops, river boat mechanics, and in the natural gas and oil industry and in some auto mechanics shops.

TECHNICAL CERTIFICATE DIESEL TECHNOLOGY

Total Program = 34 Credit Hours

The fourth digit in the course number indicates the number of credit hours.

Requirements—34 HOURS

DST	1104	Diesel Engine Technology
DST	1204	Transportation Electronics
DST	1404	Suspension and Steering
DST	2104	Climate Control
DST	2204	Brake Systems
DST	2304	Truck Preventive Maintenance
COM	1003	Career Communications
IET	1002	Introduction to General Electronics I
IET	2002	Introduction to General Electronics II
MATH	1013	Technical Mathematics A (or higher)

Department

Diesel Technology
Diesel Technology
Diesel Technology
Diesel Technology
Diesel Technology
Diesel Technology
Career Communications
Industrial Electronics
Industrial Electronics
Mathematics

Diesel Technology—CP

Division of Occupational Technology

CERTIFICATE OF PROFICIENCY DIESEL TECHNOLOGY

Total Program = 12 Credit Hours

The fourth digit in the course number indicates the number of credit hours.

Requirements—12 HOURS

DST	1104	Diesel Engine Technology
DST	1204	Transportation Electronics
DST	1404	Suspension and Steering

Department

Diesel Technology
Diesel Technology
Diesel Technology





General Technology—AAS

Division of Occupational Technology

The Associate of Applied Science degree in General Technology is designed for students who desire a program of study leading to job preparation for entry into the workforce. It is appropriate for students who are interested in a specialized technical certificate(s) for immediate employability and who desire general education courses to improve job promotion opportunities.

Because of the stepping-stone approach in the design of most ASU-Beebe technical certificate programs of study, students may begin the general education courses needed for the AASGT degree prior to or after the technical certificate coursework has been completed.

The degree consists of 15 credit hours of general education coursework and 45/46 credit hours of technical courses. The technical courses taken should result in the award of a technical certificate in a specialized area.

Additional technical courses of interest to the student and approved by the advisor may be added to enhance employability and/or to meet the minimum 45 credit hours of technical coursework. The advisor for this degree is the appropriate Division Chair/Director for the Technical Certificate.

ASSOCIATE OF APPLIED SCIENCE GENERAL TECHNOLOGY

Total Program = 60 Credit Hours

The fourth digit in the course number indicates the number of credit hours.

UNIVERSITY REQUIREMENT—1 OR 3 HOURS

University—1 HOUR or 3 HOURS

- UNIV 1001 Principles of Academic Success I
- UNIV 1003 Principles of Academic Success III

Department

- University
- University

The 3-hour credit course is required for students who must take at least one remedial course. Students who are not required to take a remedial course may take the 3-hour credit course. In both situations, the courses (1-hour or 3-hour) count toward electives.

GENERAL EDUCATION CORE—15 HOURS

English—3 HOURS

- ENG 1003 Freshman English I

Department

- English

English/Communication—3 HOURS

Choose one below.

- ENG 1013 Freshman English II
- ENG 2033 Technical Communication

Department

- English
- English

Speech/Math/Computer—6 HOURS

- MATH 1013 Technical Mathematics A (or higher)
- CIS 1503 Microcomputer Applications I

Department

- Mathematics
- Comp Info Sys





Psychology/Sociology/History—3 HOURS

Choose one below.

PSY	2013	Introduction to Psychology
SOC	2213	Principles of Sociology
HIST	2763	United States to 1876
HIST	2773	United States Since 1876

Department

Psychology
Sociology
History
History

GENERAL TECHNOLOGY CORE—24 HOURS

Requirements—24 HOURS

WELD	1004	Shielded Metal Arc Welding
WELD	1104	Gas Metal Arc Welding
WELD	1204	Gas Tungsten Arc Welding
WELD	1304	Metal Fabrication
WELD	2004	Advanced Shielded Metal Arc Welding
WELD	2204	Advanced Gas Tungsten Arc Welding

Department

Welding Technology
Welding Technology
Welding Technology
Welding Technology
Welding Technology
Welding Technology

GENERAL TECHNOLOGY ELECTIVES—45 HOURS

These electives are chosen with the help of an advisor.

Multi-Skills Technology—TC

Division of Occupational Technology

The Technical Certificate in the Multi-Skills Technology program prepares the individual to obtain marketable technical skills in a variety of areas. Students will be trained in the various technologies employed in a manufacturing plant.

**TECHNICAL CERTIFICATE
MULTI-SKILLS TECHNOLOGY**

Total Program = 30 Credit Hours

The fourth digit in the course number indicates the number of credit hours.

Requirements—30 HOURS

MUL	1003	Workplace Electricity I
MUL	2003	Workplace Electricity II
MUL	1013	Concepts of Manufacturing and Quality Control Principles I
MUL	2013	Concepts of Manufacturing and Quality Control Principles II
MUL	1023	Concepts of Fluid and Mechanical Power I
MUL	2023	Concepts of Fluid and Mechanical Power II
MUL	1033	Metalworking I
MUL	2033	Metalworking II
COM	1003	Career Communications
MATH	1013	Technical Mathematics A (or higher)

Department

Multi-skills Technology
Multi-skills Technology
Multi-skills Technology
Multi-skills Technology
Multi-skills Technology
Multi-skills Technology
Multi-skills Technology
Multi-skills Technology
Career Communications
Mathematics





Multi-Skills Technology—CP

Division of Occupational Technology

CERTIFICATE OF PROFECIENCY MULTI-SKILLS TECHNOLOGY

Total Program = 12 Credit Hours

The fourth digit in the course number indicates the number of credit hours.

Requirements—12 HOURS

MUL	1003	Workplace Electricity I
MUL	1013	Concepts of Manufacturing and Quality Control Principles I
MUL	1023	Concepts of Fluid and Mechanical Power I
MUL	1033	Metalworking I

Department

Multi-skills Technology
Multi-skills Technology
Multi-skills Technology
Multi-skills Technology

Power Sports Technology—TC

Division of Occupational Technology

The Technical Certificate in the Power Sports Program prepares the individual to obtain marketable Power Sports skills. It is designed to give students a working knowledge in the expanding field of Power Sports service and repair. Students will be trained in the repairing and maintenance of recreational vehicles, some small engines and small marine equipment. Students completing this course should be qualified to find employment in the field of Power Sports.

TECHNICAL CERTIFICATE POWER SPORTS TECHNOLOGY

Total Program = 31 Credit Hours

The fourth digit in the course number indicates the number of credit hours.

Requirements—31 HOURS

PST	1003	Power Sports Drive Trains
PST	1013	Power Sports Four Cycle Engines
PST	1023	Power Sports Fuel Systems
PST	1043	Power Sports Frames, Suspensions, & Brakes
PST	1053	Power Sports Maintenance
PST	1063	Power Sports Marine
PST	1073	Power Sports Two Cycle & Electric Engines
IET	1002	Introduction to General Electronics I
IET	2002	Introduction to General Electronics II
COM	1003	Career Communications
MATH	1013	Technical Mathematics A (or higher)

Department

Power Sports Technology
Power Sports Technology
Power Sports Technology
Power Sports Technology
Power Sports Technology
Power Sports Technology
Power Sports Technology
Industrial Electronics
Industrial Electronics
Career Communications
Mathematics





Power Sports Technology—CP

Division of Occupational Technology

CERTIFICATE OF PROFICIENCY POWER SPORTS TECHNOLOGY

Total Program = 9 Credit Hours

The fourth digit in the course number indicates the number of credit hours.

Any combination of 9 Credit Hours listed from the following courses.

Requirements—9 HOURS

PST	1003	Power Sports Drive Trains
PST	1013	Power Sports Four Cycle Engines
PST	1023	Power Sports Fuel Systems
PST	1043	Power Sports Frames, Suspensions, & Brakes
PST	1053	Power Sports Maintenance
PST	1063	Power Sports Marine
PST	1073	Power Sports Two Cycle & Electric Engines

Department

Power Sports Technology
Power Sports Technology
Power Sports Technology
Power Sports Technology
Power Sports Technology
Power Sports Technology
Power Sports Technology

Upholstery—CP

Division of Occupational Technology

This program is offered at the LRAFB center.

CERTIFICATE OF PROFICIENCY UPHOLSTERY

Total Program = 16/24 Credit Hours

The fourth digit in the course number indicates the number of credit hours.

Auto Option

Requirements—16 HOURS

UPH	1004	Basic Upholstery Techniques
UPH	1014	Auto Upholstery I
UPH	1024	Auto Upholstery II
UPH	1034	Auto Upholstery III

Department

Upholstery
Upholstery
Upholstery
Upholstery

Household Option

Requirements—24 HOURS

UPH	1004	Basic Upholstery Techniques
UPH	1044	Furniture Upholstery I
UPH	1054	Furniture Upholstery II
UPH	1064	Furniture Upholstery III
UPH	1074	Advanced Upholstery Techniques I
UPH	1084	Advanced Upholstery Techniques II

Department

Upholstery
Upholstery
Upholstery
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Upholstery





Welding Technology—AAS

Division of Occupational Technology

The program includes hands-on application of shielded metal arc welding (SMAW), gas tungsten arc welding (GTAW), and gas metal arc welding (GMAW) processes, in all positions, using pipe, plate and structural shapes. The welding training you will receive through this program can prepare you to work in a wide range of areas, such as shipbuilding, aerospace technology, automobile manufacturing, or working on the pipeline. Welding is also used to connect beams and structures in buildings, for bridges, and much more. This means the potential opportunities for where you can find employment are even greater than you might have thought.

There are over 100 kinds of welding methods and your training can introduce you to the most commonly used, such as arc welding, TIG, MIG, and soldering and brazing by a certified welding inspector. You will be shown how to perform various techniques, such as flat, horizontal, overhead, and vertical welding. You could also learn the difference between manual, semi-automated, and automated welding. Students can be certified in these areas of welding by the American Welding Society (AWS) and The National Center for Construction Education and Research (NCCER). The requirements for this program enable the individual to earn several welding certifications.

The Associate of Applied Science degree in Welding Technology is designed to prepare the individual for a career as a welding technician in the fabrication, construction and manufacturing industries.

ASSOCIATE OF APPLIED SCIENCE WELDING TECHNOLOGY

Total Program = 60 Credit Hours

The fourth digit in the course number indicates the number of credit hours.

UNIVERSITY REQUIREMENT—1 OR 3 HOURS

University—1 HOUR or 3 HOURS

UNIV 1001 Principles of Academic Success I

UNIV 1003 Principles of Academic Success III

The 3-hour credit course is required for students who must take at least one remedial course. Students who are not required to take a remedial course may take the 3-hour credit course. In both situations, the courses (1-hour or 3-hour) count toward electives.

Department

University

University

GENERAL EDUCATION CORE—21 HOURS

English—3 HOURS

ENG 1003 Freshman English I

Department

English

English/Communication—3 HOURS

Choose one below.

ENG 1013 Freshman English II

ENG 2033 Technical Communication

Department

English

English

Speech/Math/Computer—9 HOURS

SPCH 1203 Oral Communications

Department

Speech





MATH 1013 Technical Mathematics A (or higher)
 CIS 1503 Microcomputer Applications I

Mathematics
 Comp Info Sys

Psychology/Sociology—3 HOURS

Department

Choose one below.

PSY 2013 Introduction to Psychology
 SOC 2213 Principles of Sociology

Psychology
 Sociology

U.S. History/Government—3 HOURS

Department

Choose one below.

HIST 2763 United States to 1876
 HIST 2773 United States Since 1876
 POSC 2103 U.S. Government

History
 History
 Political Science

WELDING TECHNOLOGY CORE—24 HOURS

Requirements—24 HOURS

Department

WELD 1004 Shielded Metal Arc Welding
 WELD 1104 Gas Metal Arc Welding
 WELD 1204 Gas Tungsten Arc Welding
 WELD 1304 Metal Fabrication
 WELD 2004 Advanced Shielded Metal Arc Welding
 WELD 2204 Advanced Gas Tungsten Arc Welding

Welding Technology
 Welding Technology
 Welding Technology
 Welding Technology
 Welding Technology
 Welding Technology

WELDING OR TECHNICAL RELATED ELECTIVES—15 HOURS

These electives are chosen with the help of an advisor.

Welding Technology—TC

Division of Occupational Technology

The Technical Certificate in Welding Technology prepares the individual to obtain marketable welding skills and the opportunity to earn various welder certifications as defined by the American Welding Society. Courses completed in this program may be applied toward the Associate of Applied Science degree in Welding Technology.

**TECHNICAL CERTIFICATE
 WELDING TECHNOLOGY**

Total Program = 30 Credit Hours

The fourth digit in the course number indicates the number of credit hours.

Requirements—6 HOURS

Department

COM 1003 Career Communications (or higher)
 MATHA 1013 Technical Mathematics A (or higher)

Career Communications
 Mathematics

Welding Technology Core—16 HOURS

Department

WELD 1004 Shielded Metal Arc Welding
 WELD 1104 Gas Metal Arc Welding
 WELD 1204 Gas Tungsten Arc Welding
 WELD 1304 Metal Fabrication

Welding Technology
 Welding Technology
 Welding Technology
 Welding Technology





Advanced Welding Technology Core—8 HOURS

Choose two from below:

WELD 2004	Advanced Shielded Metal Arc Welding
WELD 2104	Advanced Gas Metal Arc Welding
WELD 2114	Pipeline Welding
WELD 2204	Advanced Gas Tungsten Welding
WELD 2304	Advanced Metal Fabrication

Department

Welding Technology
Welding Technology
Welding Technology
Welding Technology
Welding Technology

Welding Technology—CP

Division of Occupational Technology

The Certificate of Proficiency in Welding Technology prepares the student for entry-level employment as a structural welder. Courses completed in this program may be applied toward the Technical Certificate and the Associate of Applied Science degree in Welding Technology.

**CERTIFICATE OF PROFICIENCY
WELDING TECHNOLOGY**

Total Program = 8 Credit Hours

The fourth digit in the course number indicates the number of credit hours.

Requirements—8 HOURS

Choose any two of the following courses:

WELD 1004	Shielded Metal Arc Welding
WELD 1104	Gas Metal Arc Welding
WELD 1204	Gas Tungsten Arc Welding
WELD 1304	Metal Fabrication

Department

Welding Technology
Welding Technology
Welding Technology
Welding Technology

