

# Diversified Technology (AAS)

**Degree Type:** Associate of Applied Science Degree

**Division:** Business, Education, Math, Science & Technology

Three Rivers College's Diversified Technology Program allows high school and adult students at any of eight technical career centers in southeast Missouri to earn credits toward an Associate of Applied Science Degree at no cost.

Students who complete a two-year program from a technical career center and are admitted to Three Rivers' Diversified Technology Program will receive 36 hours of credit toward an AAS degree absolutely FREE after completing 15 hours of college level credit at Three Rivers. Students then need only complete a total of 32 hours of required courses at Three Rivers to earn an Associate of Applied Science degree. This is a savings of over \$5,000 to students enrolling in this program.

The Diversified Technology program offers 11 areas of study and is a collaborative partnership between Three Rivers, the Bootheel Tech Prep Consortium and the following technical career centers: Poplar Bluff Technical Career Center, Sikeston Career and Technology Center, New Madrid County Technical Skills Center, Pemiscot County Vocational School in Hayti, Kennett Career and Technology Center, Current River Area Vocational-Technical School in Doniphan, South Center Career Center in West Plains and Arcadia Valley Career Tech in Ironton.

A high school student or adult student can pursue any one of 11 Diversified Technology options. The options are Auto Collision Technology, Auto Service Technology, Building Trades Technology, Computer Maintenance Technology, Cosmetology Technology, Diesel Technology, Graphic Communications Technology, Heating, Ventilation and Air Conditioning (HVAC) Technology, Machine Technology, Manufacturing Technology and Welding Technology.

The Technology Support Block requires completion of an additional 14 credit hours at Three Rivers to include a six-credit hour internship course at a career specific workplace, two one-hour courses in Occupational Leadership Development, and a technology-related elective course thus completing the degree requirements.

**To be admitted to the Diversified Technology Degree Program, the student must meet the following specific criteria:**

Scholastic attainment/achievement

- Must have attained an overall high school grade average of "C Minus" or above (for high school student only).
- Must have attained an overall grade average of a "B Minus" or above for all Career Technical Education (CTE) program courses (for all students).

Attendance

- Must have attained a 95% attendance record for the applicable program or obtain the technical career center director's recommendation for a waiver.

Citizenship/conduct

- Must obtain a positive recommendation from the technical career center director (for all students) and the "home" high school principal (for high school students only).

Demonstrated core competencies in applicable program

- Must have completed a minimum of 80% of the applicable CTE program core competencies (for all students).

Demonstrate intent to participate in the articulation process

- Must complete a "non-binding" Three Rivers Community College "intent to participate" agreement, preferably in the beginning of the junior year (for high school student only).

# Auto Collision Technology Option (AAS)

**Degree Type:** Associate of Applied Science Degree

**Division:** Business, Education, Math, Science & Technology

**Purpose:** Career and Technical Education. The auto collision industry is rapidly becoming more sophisticated. Repairs, parts and materials continue to become more complex and technologically advanced. This degree option is designed to provide technicians with the general education and technical training necessary to gain entry-level employment and a foundation for future advancement in the auto collision industry.

I. GENERAL EDUCATION BLOCK			Hours	✓
SCOM	110 <sup>(1)</sup>	Public Speaking –or–	3	
SCOM	210	Interpersonal Communications		
ENGL	105 <sup>(1)</sup>	Technical Writing –or–	3	
ENGL	111 <sup>(1)</sup>	College Writing		
CIVL	106 <sup>(1)</sup>	Technical Math I –or–	3	
MATH	153 <sup>(1)</sup>	Intermediate Algebra		
IST	100	Computer Literacy –or–	3	
IST	115	Introduction to Information Systems		
GOVT	121 <sup>(1)</sup>	National and State Government	3	
PHYS	100	Survey of Physics	3	
<b>TOTAL HOURS</b>			<b>18</b>	

III. TECHNOLOGY SUPPORT BLOCK			Hours	✓
DTEC	205	Trends and Issues in Technology	3	
DTEC	297	Internship	6	
DTEC	215	Occupational Leadership Development I	1	
DTEC	216	Occupational Leadership Development II	1	
		Technology Elective	3	
<b>TOTAL HOURS</b>			<b>14</b>	

**Auto Collision Technology Option Total: 68**

II. TECHNOLOGY CORE BLOCK*			Hours	✓
ACDT	105	Introduction to Auto Collision	3	
ACDT	106	Welding	6	
ACDT	107	Panel Repair and Replacement	6	
ACDT	108	Painting and Refinishing	6	
ACDT	109	Exterior and Interior Trim	4	
ACDT	115	Mechanical Service	3	
ACDT	116	Structural Repair	6	
DTEC	115	Leadership Development I	1	
DTEC	116	Leadership Development II	1	
<b>TOTAL HOURS</b>			<b>36</b>	

<sup>(1)</sup>Course has prerequisite or placement requirements.

\*Note: All of the courses in the Technology Core are offered at one or more of the participating technical career centers. See a Three Rivers advisor or your school counselor for the location nearest you.

# Auto Service Technology Option (AAS)

**Degree Type:** Associate of Applied Science Degree

**Division:** Business, Education, Math, Science & Technology

**Purpose:** Career and Technical Education. The rapidly changing technologies in the automotive service field require highly trained technicians because of the sophistication and complexity of today’s vehicles. This degree option is designed to provide auto service technicians with the general education and technical training necessary to gain entry-level employment and a foundation for future advancement in the auto service industry.

I. GENERAL EDUCATION BLOCK			Hours	✓
SCOM	110 <sup>(1)</sup>	Public Speaking –or–	3	
SCOM	210	Interpersonal Communications		
ENGL	105 <sup>(1)</sup>	Technical Writing –or–	3	
ENGL	111 <sup>(1)</sup>	College Writing		
CIVL	106 <sup>(1)</sup>	Technical Math I –or–	3	
MATH	153 <sup>(1)</sup>	Intermediate Algebra		
IST	100	Computer Literacy –or–	3	
IST	115	Introduction to Information Systems		
GOVT	121 <sup>(1)</sup>	National and State Government	3	
PHYS	100	Survey of Physics	3	
<b>TOTAL HOURS</b>			<b>18</b>	

II. TECHNOLOGY CORE BLOCK*			Hours	✓
ASDT	105	Introduction to Auto Mechanics	2	
ASDT	106	Engine Repair	5	
ASDT	107	Engine Performance	5	
ASDT	108	Brakes	3	
ASDT	109	Heating and Air Conditioning	2	
ASDT	115	Automatic Transmissions and Transaxles	5	
ASDT	116	Manual Drive Trains and Axles	4	
ASDT	117	Suspension and Steering	2	
ASDT	118	Electrical	6	
DTEC	115	Leadership Development I	1	
DTEC	116	Leadership Development II	1	
<b>TOTAL HOURS</b>			<b>36</b>	

III. TECHNOLOGY SUPPORT BLOCK			Hours	✓
DTEC	205	Trends and Issues in Technology	3	
DTEC	297	Internship	6	
DTEC	215	Occupational Leadership Development I	1	
DTEC	216	Occupational Leadership Development II	1	
		Technology Elective	3	
<b>TOTAL HOURS</b>			<b>14</b>	

**Auto Service Technology Option Total: 68**

<sup>(1)</sup>Course has prerequisite or placement requirements.

\*Note: All of the courses in the Technology Core are offered at one or more of the participating technical career centers. See a Three Rivers advisor or your school counselor for the location nearest you.

# Building Trades Technology Option (AAS)

**Degree Type:** Associate of Applied Science Degree

**Division:** Business, Education, Math, Science & Technology

**Purpose:** Career and Technical Education. The rapidly changing technologies in the building trades industry require highly skilled individuals due to the demand for high quality, affordable and available residential and commercial structures. This degree option is designed to provide building trades personnel with the general education and technical training necessary to gain entry-level employment and a foundation for future advancement in the building trades industry.

I. GENERAL EDUCATION BLOCK			Hours	✓
SCOM	110 <sup>(1)</sup>	Public Speaking –or–	3	
SCOM	210	Interpersonal Communications		
ENGL	105 <sup>(1)</sup>	Technical Writing –or–	3	
ENGL	111 <sup>(1)</sup>	College Writing		
CIVL	106 <sup>(1)</sup>	Technical Math I –or–	3	
MATH	153 <sup>(1)</sup>	Intermediate Algebra		
IST	100	Computer Literacy –or–	3	
IST	115	Introduction to Information Systems		
GOVT	121 <sup>(1)</sup>	National and State Government	3	
PHYS	100	Survey of Physics	3	
<b>TOTAL HOURS</b>			<b>18</b>	

III. TECHNOLOGY SUPPORT BLOCK			Hours	✓
DTEC	205	Trends and Issues in Technology	3	
DTEC	297	Internship	6	
DTEC	215	Occupational Leadership Development I	1	
DTEC	216	Occupational Leadership Development II	1	
		Technology Elective	3	
<b>TOTAL HOURS</b>			<b>14</b>	

**Building Trades Technology Option Total: 68**

II. TECHNOLOGY CORE BLOCK*			Hours	✓
BTDT	105	Safety and Basic Skills	3	
BTDT	106	Planning for Construction	1	
BTDT	107	Preparing the Building Site	2	
BTDT	108	Building and Installing Forms	3	
BTDT	109	Floor Layout and Framing	3	
BTDT	115	Wall Layout and Framing	3	
BTDT	116	Roof Layout and Framing	3	
BTDT	117	Installing Roofing and Components	2	
BTDT	118	Installing Exterior Finishes	3	
BTDT	119	Installing Interior Finishes	3	
BTDT	205	Electrical Trade Exploration	3	
BTDT	206	Masonry Exploration	2	
BTDT	207	Plumbing Exploration	3	
DTEC	115	Leadership Development I	1	
DTEC	116	Leadership Development II	1	
<b>TOTAL HOURS</b>			<b>36</b>	

<sup>(1)</sup> Course has prerequisite or placement requirements.

\*Note: All of the courses in the Technology Core are offered at one or more of the participating technical career centers. See a Three Rivers advisor or your school counselor for the location nearest you.

# Computer Maintenance Technology Option (AAS)

**Degree Type:** Associate of Applied Science Degree

**Division:** Business, Education, Math, Science & Technology

**Purpose:** Career and Technical Education. Computer support specialists provide technical assistance, support and advice to customers and other users. These troubleshooters interpret problems and provide technical support for hardware, software and systems. This degree option is designed to provide computer maintenance technicians with the general education and technical training necessary to gain entry-level employment and a foundation for future advancement in the computer support industry.

I. GENERAL EDUCATION BLOCK			Hours	✓
SCOM	110 <sup>(1)</sup>	Public Speaking –or–	3	
SCOM	210	Interpersonal Communications		
ENGL	105 <sup>(1)</sup>	Technical Writing –or–	3	
ENGL	111 <sup>(1)</sup>	College Writing		
CIVL	106 <sup>(1)</sup>	Technical Math I –or–	3	
MATH	153 <sup>(1)</sup>	Intermediate Algebra		
IST	100	Computer Literacy –or–	3	
IST	115	Introduction to Information Systems		
GOVT	121 <sup>(1)</sup>	National and State Government	3	
PHYS	100	Survey of Physics	3	
<b>TOTAL HOURS</b>			<b>18</b>	

III. TECHNOLOGY SUPPORT BLOCK			Hours	✓
DTEC	205	Trends and Issues in Technology	3	
DTEC	297	Internship	6	
DTEC	215	Occupational Leadership Development I	1	
DTEC	216	Occupational Leadership Development II	1	
		Technology Elective	3	
<b>TOTAL HOURS</b>			<b>14</b>	

**Computer Maintenance Technology Option Total: 68**

II. TECHNOLOGY CORE BLOCK*			Hours	✓
CMDT	105	Hardware Installation, Configuration & Upgrading	6	
CMDT	106	Diagnosis & Troubleshooting Hardware	6	
CMDT	107	Hardware Preventive Maintenance	1	
CMDT	108	Hardware Motherboard/Processors/Memory	2	
CMDT	109	Basic Printers	2	
CMDT	115	Basic Networking	2	
CMDT	116	Operating Systems Fundamentals	2	
CMDT	117	Operating Systems Installation, Configuration & Upgrading	2	
CMDT	118	Diagnosis & Troubleshooting Operating Systems	2	
CMDT	119	Networks Operating Systems	2	
CMDT	205	Internship: Computer Repair	4	
CMDT	206	Internship: Computer Networking	3	
DTEC	115	Leadership Development I	1	
DTEC	116	Leadership Development II	1	
<b>TOTAL HOURS</b>			<b>36</b>	

<sup>(1)</sup>Course has prerequisite or placement requirements.

\*Note: All of the courses in the Technology Core are offered at one or more of the participating technical career centers. See a Three Rivers advisor or your school counselor for the location nearest you.

# Cosmetology Technology Option (AAS)

**Degree Type:** Associate of Applied Science Degree

**Division:** Business, Education, Math, Science & Technology

**Purpose:** Career and Technical Education. The overall employment of cosmetologists and other personal appearance workers is projected to grow 10-20% for all occupations through 2010, because of increasing population, incomes and demand for cosmetology services. This degree option is designed to provide cosmetologists with the general education and technical training necessary to gain entry-level employment and a foundation for future advancement in the personal care and service industry.

I. GENERAL EDUCATION BLOCK			Hours
SCOM SCOM	110 <sup>(1)</sup> 210	Public Speaking -OR- Interpersonal Communications	3
ENGL ENGL	105 <sup>(1)</sup> 111 <sup>(1)</sup>	Technical Writing -OR- College Writing	3
CIVL MATH	106 <sup>(1)</sup> 153 <sup>(1)</sup>	Technical Math I -OR- Intermediate Algebra	3
IST IST	100 115	Computer Literacy -OR- Introduction to Information Systems	3
GOVT	121 <sup>(1)</sup>	National and State Government	3
PHYS	100	Survey of Physics	3
<b>TOTAL HOURS</b>			<b>18</b>

III. TECHNOLOGY SUPPORT BLOCK			Hours
DTEC	205	Trends and Issues in Technology	3
DTEC	297	Internship	6
DTEC	215	Occupational Leadership Development I	1
DTEC	216	Occupational Leadership Development II	1
		Technology Elective	3
<b>TOTAL HOURS</b>			<b>14</b>

**Cosmetology Technology Option Total: 68**

II. TECHNOLOGY CORE BLOCK*			Hours
CTDT	105	Shampooing	1
CTDT	106	Hair Coloring, Bleaches & Rinses	4
CTDT	107	Hair Cutting & Shaping	4
CTDT	108	Permanent Waving & Relaxing	4
CTDT	109	Hairsetting & Curling	6
CTDT	115	Combouts & Hair Styling Techniques	4
CTDT	116	Scalp Treatments & Scalp Diseases	1
CTDT	117	Facials, Eyebrows Lash Dyes & Arches	1
CTDT	118	Manicuring & Nail Treatment/Massage	4
CTDT	119	Cosmetic Chemistry	1
CTDT	205	Salesmanship & Shop Management	1
CTDT	206	Sanitation & Sterilization	1
CTDT	207	Anatomy	1
CTDT	208	State Law	1
DTEC	115	Leadership Development I	1
DTEC	116	Leadership Development II	1
<b>TOTAL HOURS</b>			<b>36</b>

<sup>(1)</sup>Course has prerequisite or placement requirements.

\*Note: All of the courses in the Technology Core are offered at one or more of the participating technical career centers. See a Three Rivers advisor or your school counselor for the location nearest you.

# Culinary Arts Option (AAS)

**Degree Type:** Associate of Applied Science Degree

**Division:** Business, Education, Math, Science & Technology

**Purpose:** Career and Technical Education. The demand for skilled chefs and related positions remains strong and is expected to increase rapidly in the future. This degree option is designed to provide chefs and related positions with the general education and technical training necessary to gain entry-level employment and a foundation for future advancement in the culinary industry.

I. GENERAL EDUCATION BLOCK			Hours	✓
SCOM	110 <sup>(1)</sup>	Public Speaking	3	
SCOM	210	Interpersonal Communications		
ENGL	105 <sup>(1)</sup>	Technical Writing	3	
ENGL	111 <sup>(1)</sup>	College Writing		
CIVL	106 <sup>(1)</sup>	Technical Math I	3	
MATH	153 <sup>(1)</sup>	Intermediate Algebra		
IST	100	Computer Literacy	3	
IST	115	Introduction to Information Systems		
GOVT	121 <sup>(1)</sup>	National and State Government	3	
PHYS	100	Survey of Physics	3	
<b>TOTAL HOURS</b>			<b>18</b>	

III. TECHNOLOGY SUPPORT BLOCK				Hours	✓
DTEC	205	Trends and Issues in Technology	3		
DTEC	297	Internship	6		
DTEC	215	Occupational Leadership Development I	1		
DTEC	216	Occupational Leadership Development II	1		
		Technology Elective	3		
<b>TOTAL HOURS</b>			<b>14</b>		

**Culinary Arts Option Total: 68**

II. TECHNOLOGY CORE BLOCK*			Hours	✓
CADT	105	Orientation to Culinary Arts	3	
CADT	106	Food Service Sanitation I	3	
CADT	107	Food Service Sanitation II	3	
CADT	108	Introduction to Food Preparation	3	
CADT	109	Accident Prevention and Crisis Management	3	
CADT	115	Food Service Cost Control/Management	4	
CADT	116	Food Service Nutrition	3	
CADT	117	Basic Food Preparation	3	
CADT	118	Intermediate Food Preparation	3	
CADT	119	Advanced Food Preparation	3	
CADT	125	Dining Room Management	3	
DTEC	115	Leadership Development I	1	
DTEC	116	Leadership Development II	1	
<b>TOTAL HOURS</b>			<b>36</b>	

<sup>(1)</sup>Course has prerequisite or placement requirements.

\*Note: All of the courses in the Technology Core are offered at one or more of the participating technical career centers. See a Three Rivers advisor or your school counselor for the location nearest you.

# Diesel Technology Option (AAS)

**Degree Type:** Associate of Applied Science Degree

**Division:** Business, Education, Math, Science & Technology

**Purpose:** Career and Technical Education. Diesel technician continues to be a high-demand and high-wage occupation. This degree option is designed to provide diesel technicians with the general education and technical training necessary to gain entry-level employment and a foundation for future advancement in the diesel technology industry.

I. GENERAL EDUCATION BLOCK			Hours	✓
SCOM	110 <sup>(1)</sup>	Public Speaking –or–	3	
SCOM	210	Interpersonal Communications		
ENGL	105 <sup>(1)</sup>	Technical Writing –or–	3	
ENGL	111 <sup>(1)</sup>	College Writing		
CIVL	106 <sup>(1)</sup>	Technical Math I –or–	3	
MATH	153 <sup>(1)</sup>	Intermediate Algebra		
IST	100	Computer Literacy –or–	3	
IST	115	Introduction to Information Systems		
GOVT	121 <sup>(1)</sup>	National and State Government	3	
PHYS	100	Survey of Physics	3	
<b>TOTAL HOURS</b>			<b>18</b>	

II. TECHNOLOGY CORE BLOCK*			Hours	✓
DIDT	105	Safety and Health	1	
DIDT	106	Preventive Maintenance	2	
DIDT	107	Electrical Theory	4	
DIDT	108	Engine Block and Components	4	
DIDT	109	Heating and Air Conditioning Systems	3	
DIDT	115	Brake Systems	4	
DIDT	116	Engine Tune-Up	2	
DIDT	117	Electrical Troubleshooting	4	
DIDT	118	Cylinder Head and Valve Train	3	
DIDT	119	Cooling Systems	1	
DIDT	205	Fuel Systems	4	
DTEC	115	Leadership Development I	1	
DTEC	116	Leadership Development II	1	
<b>TOTAL HOURS</b>			<b>36</b>	

<sup>(1)</sup>Course has prerequisite or placement requirements.

\*Note: All of the courses in the Technology Core are offered at one or more of the participating technical career centers. See a Three Rivers advisor or your school counselor for the location nearest you.

III. TECHNOLOGY SUPPORT BLOCK			Hours	✓
DTEC	205	Trends and Issues in Technology	3	
DTEC	297	Internship	6	
DTEC	215	Occupational Leadership Development I	1	
DTEC	216	Occupational Leadership Development II	1	
		Technology Elective	3	
<b>TOTAL HOURS</b>			<b>14</b>	

**Diesel Technology option Total: 68**

# Drafting Technology Option (AAS)

**Degree Type:** Associate of Applied Science Degree

**Division:** Business, Education, Math, Science & Technology

**Purpose:** Career and Technical Education. This degree option is designed to provide drafting technicians with the general education and technical skills to gain entry-level employment and a foundation for future advancement in residential, commercial and industrial fields. Computer-aided drafting software is used to create mechanical working drawings, floor plans and 3D modeling.

I. GENERAL EDUCATION BLOCK			Hours	✓
SCOM	110 <sup>(1)</sup>	Public Speaking	3	
SCOM	210	Interpersonal Communications		
ENGL	105 <sup>(1)</sup>	Technical Writing	3	
ENGL	111 <sup>(1)</sup>	College Writing		
CIVL	106 <sup>(1)</sup>	Technical Math I	3	
MATH	153 <sup>(1)</sup>	Intermediate Algebra		
IST	100	Computer Literacy	3	
IST	115	Introduction to Information Systems		
GOVT	121 <sup>(1)</sup>	National and State Government	3	
PHYS	100	Survey of Physics	3	
<b>TOTAL HOURS</b>			<b>18</b>	

III. TECHNOLOGY SUPPORT BLOCK			Hours	✓
DTEC	205	Trends and Issues in Technology	3	
DTEC	297	Internship	6	
DTEC	215	Occupational Leadership Development I	1	
DTEC	216	Occupational Leadership Development II	1	
		Technology Elective	3	
<b>TOTAL HOURS</b>			<b>14</b>	

**Drafting Technology option Total: 68**

II. TECHNOLOGY CORE BLOCK*			Hours	✓
DDT	105	Mechanical CAD	4	
DDT	106	Parametric Solid Modeling	4	
DDT	107	Mechanical Working Drawing	5	
DDT	108	Mechanical Piping	2	
DDT	109	Mechanical Electrical	2	
DDT	115	Introduction to Architecture	4	
DDT	116	Architectural Desktop I	4	
DDT	117	Architectural Desktop II	4	
DDT	118	Architectural Design Application	5	
DTEC	115	Leadership Development I	1	
DTEC	116	Leadership Development II	1	
<b>TOTAL HOURS</b>			<b>36</b>	

<sup>(1)</sup>Course has prerequisite or placement requirements.

\*Note: All of the courses in the Technology Core are offered at one or more of the participating technical career centers. See a Three Rivers advisor or your school counselor for the location nearest you.

# Graphic Communications Tech Option (AAS)

**Degree Type:** Associate of Applied Science Degree

**Division:** Business, Education, Math, Science & Technology

**Purpose:** Career and Technical Education. Graphic communications technicians or designers use a variety of print, electronic and film media to create designs that meet clients' commercial needs. Using computer software, they develop the overall layout and design of magazines, newspapers, journals, corporate reports and other publications. This degree option is designed to provide graphic communications technicians with the general education and technical training necessary to gain entry-level employment and a foundation for future advancement in the graphic communications industry.

I. GENERAL EDUCATION BLOCK			Hours	✓
SCOM	110 <sup>(1)</sup>	Public Speaking –or–	3	
SCOM	210	Interpersonal Communications		
ENGL	105 <sup>(1)</sup>	Technical Writing –or–	3	
ENGL	111 <sup>(1)</sup>	College Writing		
CIVL	106 <sup>(1)</sup>	Technical Math I –or–	3	
MATH	153 <sup>(1)</sup>	Intermediate Algebra		
IST	100	Computer Literacy –or–	3	
IST	115	Introduction to Information Systems		
GOVT	121 <sup>(1)</sup>	National and State Government	3	
PHYS	100	Survey of Physics	3	
<b>TOTAL HOURS</b>			<b>18</b>	

III. TECHNOLOGY SUPPORT BLOCK				Hours	✓
DTEC	205	Trends and Issues in Technology		3	
DTEC	297	Internship		6	
DTEC	215	Occupational Leadership Development I		1	
DTEC	216	Occupational Leadership Development II		1	
		Technology Elective		3	
<b>TOTAL HOURS</b>				<b>14</b>	

**Graphic Communications Technology Option Total: 68**

II. TECHNOLOGY CORE BLOCK*			Hours	✓
GCDT	105	Printing Safety	4	
GCDT	106	Introduction to Macintosh Computers	6	
GCDT	107	Computer Page Layout I	3	
GCDT	108	Computer Page Layout II	3	
GCDT	109	Pre-Press Imaging I	3	
GCDT	115	Pre-Press Imaging II	3	
GCDT	116	Press Operation I	3	
GCDT	117	Press Operation II	3	
GCDT	118	Bindery Operation I	3	
GCDT	119	Bindery Operation II	3	
DTEC	115	Leadership Development I	1	
DTEC	116	Leadership Development II	1	
<b>TOTAL HOURS</b>			<b>36</b>	

<sup>(1)</sup> Course has prerequisite or placement requirements.

\*Note: All of the courses in the Technology Core are offered at one or more of the participating technical career centers. See a Three Rivers advisor or your school counselor for the location nearest you.

# HVAC Technology Option (AAS)

**Degree Type:** Associate of Applied Science Degree

**Division:** Business, Education, Math, Science & Technology

**Purpose:** Career and Technical Education. The demand for skilled heating, ventilation and air conditioning (HVAC) technicians is high and is expected to remain high as systems become more complex and sophisticated. This degree option is designed to provide HVAC technicians with the general education and technical training necessary to gain entry-level employment and a foundation for future advancement in the HVAC industry.

I. GENERAL EDUCATION BLOCK			Hours	✓
SCOM	110 <sup>(1)</sup>	Public Speaking	3	
SCOM	210	Interpersonal Communications		
ENGL	105 <sup>(1)</sup>	Technical Writing	3	
ENGL	111 <sup>(1)</sup>	College Writing		
CIVL	106 <sup>(1)</sup>	Technical Math I	3	
MATH	153 <sup>(1)</sup>	Intermediate Algebra		
IST	100	Computer Literacy	3	
IST	115	Introduction to Information Systems		
GOVT	121 <sup>(1)</sup>	National and State Government	3	
PHYS	100	Survey of Physics	3	
<b>TOTAL HOURS</b>			<b>18</b>	

II. TECHNOLOGY CORE BLOCK*			Hours	✓
HVDT	105	Safety	1	
HVDT	106	Refrigeration Principles and Practices	3	
HVDT	107	Piping Principles and Practices	3	
HVDT	108	Basic Electricity	3	
HVDT	109	Electric Motors	3	
HVDT	115	Controls	3	
HVDT	116	Gas Fired and Electric Furnaces	4	
HVDT	117	Heat Pumps	3	
HVDT	118	Air Conditioning	3	
HVDT	119	Commercial Refrigeration	3	
HVDT	205	Sheet Metal Layout and Duct Design	3	
HVDT	206	Installation and Preventive Maintenance	2	
DTEC	115	Leadership Development I	1	
DTEC	116	Leadership Development II	1	
<b>TOTAL HOURS</b>			<b>36</b>	

<sup>(1)</sup>Course has prerequisite or placement requirements.

\*Note: All of the courses in the Technology Core are offered at one or more of the participating technical career centers. See a Three Rivers advisor or your school counselor for the location nearest you.

III. TECHNOLOGY SUPPORT BLOCK			Hours	✓
DTEC	205	Trends and Issues in Technology	3	
DTEC	297	Internship	6	
DTEC	215	Occupational Leadership Development I	1	
DTEC	216	Occupational Leadership Development II	1	
		Technology Elective	3	
<b>TOTAL HOURS</b>			<b>14</b>	

**HVAC Technology Option Total: 68**

# Machine Technology Option (AAS)

**Degree Type:** Associate of Applied Science Degree

**Division:** Business, Education, Math, Science & Technology

**Purpose:** Career and Technical Education. Demand for machine tool technicians remains strong and is expected to increase in the future. This degree option is designed to provide technicians with the general education and technical training necessary to gain entry-level employment and a foundation for future advancement in the machine tool industry.

I. GENERAL EDUCATION BLOCK			Hours	✓
SCOM	110 <sup>(1)</sup>	Public Speaking	3	
SCOM	210	Interpersonal Communications		
ENGL	105 <sup>(1)</sup>	Technical Writing	3	
ENGL	111 <sup>(1)</sup>	College Writing		
CIVL	106 <sup>(1)</sup>	Technical Math I	3	
MATH	153 <sup>(1)</sup>	Intermediate Algebra		
IST	100	Computer Literacy	3	
IST	115	Introduction to Information Systems		
GOVT	121 <sup>(1)</sup>	National and State Government	3	
PHYS	100	Survey of Physics	3	
<b>TOTAL HOURS</b>			<b>18</b>	

III. TECHNOLOGY SUPPORT BLOCK			Hours	✓
DTEC	205	Trends and Issues in Technology	3	
DTEC	297	Internship	6	
DTEC	215	Occupational Leadership Development I	1	
DTEC	216	Occupational Leadership Development II	1	
		Technology Elective	3	
<b>TOTAL HOURS</b>			<b>14</b>	

**Machine Technology Option Total: 68**

II. TECHNOLOGY CORE BLOCK*			Hours	✓
MCDT	105	Health and Safety	2	
MCDT	106	Technical Mathematics I	2	
MCDT	107	Machine Shop I	3	
MCDT	108	Machine Shop II	3	
MCDT	109	Metallurgy	3	
MCDT	115	Machine Blueprint Reading	3	
MCDT	116	Industrial Safety	1	
MCDT	117	Technical Mathematics II	2	
MCDT	118	Programmable Systems	3	
MCDT	119	Master CAM/AutoCAD	3	
MCDT	205	Automated Machine Operations I	3	
MCDT	206	Automated Machine Operations II	3	
MCDT	207	Automated Plasma CAM	3	
DTEC	115	Leadership Development I	1	
DTEC	116	Leadership Development II	1	
<b>TOTAL HOURS</b>			<b>36</b>	

<sup>(1)</sup> Course has prerequisite or placement requirements.

\*Note: All of the courses in the Technology Core are offered at one or more of the participating technical career centers. See a Three Rivers advisor or your school counselor for the location nearest you.

# Manufacturing Technology Option (AAS)

**Degree Type:** Associate of Applied Science Degree

**Division:** Business, Education, Math, Science & Technology

**Purpose:** Career and Technical Education. Demand for skilled technicians in all areas of the manufacturing field is very strong and is expected to remain a high-demand and high-wage occupation. This degree option is designed to provide technicians with the general education and technical training necessary to gain entry-level employment and a foundation for future advancement in the manufacturing industry.

I. GENERAL EDUCATION BLOCK			Hours	✓
SCOM	110 <sup>(1)</sup>	Public Speaking	3	
SCOM	210	Interpersonal Communications		
ENGL	105 <sup>(1)</sup>	Technical Writing	3	
ENGL	111 <sup>(1)</sup>	College Writing		
CIVL	106 <sup>(1)</sup>	Technical Math I	3	
MATH	153 <sup>(1)</sup>	Intermediate Algebra		
IST	100	Computer Literacy	3	
IST	115	Introduction to Information Systems		
GOVT	121 <sup>(1)</sup>	National and State Government	3	
PHYS	100	Survey of Physics	3	
<b>TOTAL HOURS</b>			<b>18</b>	

II. TECHNOLOGY SUPPORT BLOCK			Hours	✓
DTEC	205	Trends and Issues in Technology	3	
DTEC	297	Internship	6	
DTEC	215	Occupational Leadership Development I	1	
DTEC	216	Occupational Leadership Development II	1	
		Technology Elective	3	
<b>TOTAL HOURS</b>			<b>14</b>	

**Manufacturing Technology Option Total: 68**

II. TECHNOLOGY CORE BLOCK*			Hours	✓
MFDT	105	Health and Safety	1	
MFDT	106	Technical Mathematics I	2	
MFDT	107	Machine Shop I	3	
MFDT	108	Machine Shop II	3	
MFDT	109	Metallurgy	2	
MFDT	115	Machine Blueprint Reading	3	
MFDT	116	AutoCAD Principles and Applications	4	
MFDT	117	Welding Personal Safety	1	
MFDT	118	Welding Tools and Proper Use	2	
MFDT	119	Oxy Fuel Cutting Systems	2	
MFDT	205	Technical Mathematics II	2	
MFDT	206	Shielded Metal Arc Welding	3	
MFDT	207	Gas Metal Arc Welding	3	
MFDT	208	Print Reading, Layout and Fit Up	3	
DTEC	115	Leadership Development I	1	
DTEC	116	Leadership Development II	1	
<b>TOTAL HOURS</b>			<b>36</b>	

<sup>(1)</sup>Course has prerequisite or placement requirements.

\*Note: All of the courses in the Technology Core are offered at one or more of the participating technical career centers. See a Three Rivers advisor or your school counselor for the location nearest you.

# Television/Radio Production Option (AAS)

**Degree Type:** Associate of Applied Science Degree

**Division:** Business, Education, Math, Science & Technology

**Purpose:** Career and Technical Education. The demand for skilled radio/television technicians remains strong and is expected to increase rapidly in the future. This degree option is designed to provide radio/television technicians with the general education and technical training necessary to gain entry-level employment and a foundation for future advancement in the radio/television industry.

I. GENERAL EDUCATION BLOCK			Hours	✓
SCOM	110 <sup>(1)</sup>	Public Speaking –or–	3	
SCOM	210	Interpersonal Communications		
ENGL	105 <sup>(1)</sup>	Technical Writing –or–	3	
ENGL	111 <sup>(1)</sup>	College Writing		
CIVL	106 <sup>(1)</sup>	Technical Math I –or–	3	
MATH	153 <sup>(1)</sup>	Intermediate Algebra		
IST	100	Computer Literacy –or–	3	
IST	115	Introduction to Information Systems		
GOVT	121 <sup>(1)</sup>	National and State Government	3	
PHYS	100	Survey of Physics	3	
<b>TOTAL HOURS</b>			<b>18</b>	

III. TECHNOLOGY SUPPORT BLOCK				Hours	✓
DTEC	205	Trends and Issues in Technology		3	
DTEC	297	Internship		6	
DTEC	215	Occupational Leadership Development I		1	
DTEC	216	Occupational Leadership Development II		1	
		Technology Elective		3	
<b>TOTAL HOURS</b>				<b>14</b>	

**Radio/Television Production Option Total: 68**

II. TECHNOLOGY CORE BLOCK*			Hours	✓
TRDT	105	Introduction to Video Systems	3	
TRDT	106	Camera Basics	3	
TRDT	107	Studio Production I	3	
TRDT	108	Audio: Sound Reception	2	
TRDT	109	Audio: Sound Transmission	2	
TRDT	115	Advanced Camera Operations	3	
TRDT	116	EFP–Electronic Field Production/ ENG–Electronic News Gathering	3	
TRDT	117	Post-Production Editing I	3	
TRDT	118	Television Graphics	3	
TRDT	119	Studio Production II	3	
TRDT	205	Post-Production Editing II	3	
TRDT	206	Lighting	3	
DTEC	115	Leadership Development I	1	
DTEC	116	Leadership Development II	1	
<b>TOTAL HOURS</b>			<b>36</b>	

<sup>(1)</sup>Course has prerequisite or placement requirements.

\*Note: All of the courses in the Technology Core are offered at one or more of the participating technical career centers. See a Three Rivers advisor or your school counselor for the location nearest you.

# Welding Technology Option (AAS)

**Degree Type:** Associate of Applied Science Degree

**Division:** Business, Education, Math, Science & Technology

**Purpose:** Career and Technical Education. Welders, cutters, and welding machine operators continue to be high-demand and high-wage occupations. The demand is expected to remain high in the future, especially in the manufacturing, transportation, industrial machinery, industrial equipment and fabricated metals industries. This degree option is designed to provide technicians with the general education and technical training necessary to gain entry-level employment and a foundation for future advancement in the welding industry.

I. GENERAL EDUCATION BLOCK			Hours	✓
SCOM	110 <sup>(1)</sup>	Public Speaking –or–	3	
SCOM	210	Interpersonal Communications		
ENGL	105 <sup>(1)</sup>	Technical Writing –or–	3	
ENGL	111 <sup>(1)</sup>	College Writing		
CIVL	106 <sup>(1)</sup>	Technical Math I –or–	3	
MATH	153 <sup>(1)</sup>	Intermediate Algebra		
IST	100	Computer Literacy –or–	3	
IST	115	Introduction to Information Systems		
GOVT	121 <sup>(1)</sup>	National and State Government	3	
PHYS	100	Survey of Physics	3	
<b>TOTAL HOURS</b>			<b>18</b>	

III. TECHNOLOGY SUPPORT BLOCK				Hours	✓
DTEC	205	Trends and Issues in Technology		3	
DTEC	297	Internship		6	
DTEC	215	Occupational Leadership Development I		1	
DTEC	216	Occupational Leadership Development II		1	
		Technology Elective		3	
<b>TOTAL HOURS</b>				<b>14</b>	

**Welding Technology Option Total: 68**

II. TECHNOLOGY CORE BLOCK*			Hours	✓
WEDT	105	Welding Personal Safety	2	
WEDT	106	Welding Tools and Proper Use	2	
WEDT	107	Print Reading, Layout and Fit Up	6	
WEDT	108	Oxy Fuel Cutting and Welding	6	
WEDT	109	Shielded Metal Arc Welding	6	
WEDT	115	Gas Metal Arc Welding	6	
WEDT	116	Gas Tungsten Arc Welding	6	
DTEC	115	Leadership Development I	1	
DTEC	116	Leadership Development II	1	
<b>TOTAL HOURS</b>			<b>36</b>	

<sup>(1)</sup>Course has prerequisite or placement requirements.

\*Note: All of the courses in the Technology Core are offered at one or more of the participating technical career centers. See a Three Rivers advisor or your school counselor for the location nearest you.