

# Associate of Applied Science Degrees

All programs in career and technical education are highly specialized. They are specifically designed to give the necessary training and skills required in various occupations. The college shall assist all students in finding employment upon successful completion of their chosen programs; however, the college cannot promise employment to anyone. The college anticipates the addition of other curricula in career and technical education as conditions warrant.

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# Agriculture Systems

## Associate of Applied Science Degree



### Math, Science & Technology

**Purpose: Career and Technical Education.** This program is for students who want to develop management and technical skills to enter agricultural related industry or production. The curriculum is constructed so that students may concentrate in one of two areas: **AGRI-BUSINESS** or **AGRITECHNOLOGY**. The curriculum may be completed in two years by the full-time student.

### Agribusiness Option FIRST YEAR

Fall Semester			Hours
ENGL	105 <sup>(1)</sup>	Technical Writing –or–	3
ENGL	111 <sup>(1)</sup>	College Writing	
AGRI	120	Plant Science	4
AGRI	130	Animal Science	3
BUED	110	Business Mathematics	3
BUAD	120	Contemporary Business Practices	3
<b>TOTAL HOURS</b>			<b>16</b>

Spring Semester			Hours
GOVT	121	National and State Government	3
IST	100	Computer Literacy	3
AGRI	110	Soil and Soil Fertility	3
AGRI	232	Livestock Production	3
MKTG	128	Professional Selling	3
<b>TOTAL HOURS</b>			<b>15</b>

### SECOND YEAR

Fall Semester			Hours
AGRI	122	Natural Resources Management	3
AGRI	240	Agricultural Economics and Marketing	3
AGRI	260	General Horticulture	3
BMGT	108	Human Resource Management	3
VALU	190	World Foods and Society	3
<b>TOTAL HOURS</b>			<b>15</b>

Spring Semester			Hours
AGRI	172	Integrated Pest Management	3
AGRI	270	Agriculture Systems Management	3
AGRI	297	Agriculture Internship	6
SCOM	110	Public Speaking	3
CIVL	198	Seminar	1
<b>TOTAL HOURS</b>			<b>16</b>

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

### Agritechnology Option FIRST YEAR

Fall Semester			Hours
ENGL	105 <sup>(1)</sup>	Technical Writing –or–	3
ENGL	111 <sup>(1)</sup>	College Writing	
AGRI	120	Plant Science	4
AGRI	130	Animal Science	3
CIVL	106	Technical Math I	3
General Education Elective			3
<b>TOTAL HOURS</b>			<b>16</b>

Spring Semester			Hours
GOVT	121	National and State Government	3
IST	100	Computer Literacy	3
AGRI	110	Soil and Soil Fertility	3
AGRI	232	Livestock Production	3
CIVL	116	Surveying I	3
<b>TOTAL HOURS</b>			<b>15</b>

### SECOND YEAR

Fall Semester			Hours
AGRI	122	Natural Resources Management	3
AGRI	240	Agricultural Economics and Marketing	3
AGRI	260	General Horticulture	3
CIVL	208	Mechanical and Electrical Systems –or–	3
ELEC	115	Applied DC & AC Circuits	
MAFT	255	Hydraulics and Pneumatics	3
<b>TOTAL HOURS</b>			<b>15</b>

Spring Semester			Hours
AGRI	172	Integrated Pest Management	3
AGRI	270	Agriculture Systems Management	3
AGRI	297	Agriculture Internship	6
SCOM	110	Public Speaking	3
CIVL	198	Seminar	1
<b>TOTAL HOURS</b>			<b>16</b>

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

# Applied Technology



## Associate of Applied Science Degree

### Math, Science & Technology

**Purpose: Career and Technical Education.** This flexible program focuses on marketable skills in the area of applied technology. The program is designed so students can tailor the degree to their specific areas of interest.

#### I. GENERAL EDUCATION BLOCK

Hours

SCOM	110	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 -OR-	
MATH	163 <sup>(1)</sup>	College Algebra	
IST	100	Computer Literacy -OR-	3
IST	115	Introduction to Information Systems	
GOVT	121	National and State Government	3
PHYS	100	Survey of Physics	3
<b>TOTAL HOURS</b>			<b>18</b>

#### II. APPLIED TECHNOLOGY BLOCK

Hours

ELEC	115	Applied DC & AC Circuits	3
ENGR	110	Engineering Graphics	3
IST	119	PC Operating Systems	3
MAFT	229	Introduction to Health and Safety Programs	3
MAFT	228	Quality Assurance Fundamentals	3
<b>TOTAL HOURS</b>			<b>15</b>

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

#### Applied Technology Electives

The Applied Technology electives (30 semester hours) must be technical in nature and may be selected from up to four of the following departments:

- Accounting Technology
- Agritechnology
- Business Management
- Civil and Construction Technology
- Drafting Technology
- Electronics
- Environmental, Occupational, Safety and Health Technology
- Information Systems Technology
- Manufacturing Technology
- Microcomputer Support Technology

In special circumstances, electives may be selected from other college departments with the approval of the Math, Science and Technology Division Chair.

Hours

<b>General Education Block Total</b>	<b>18</b>
<b>Applied Technology Block Total</b>	<b>15</b>
<b>Applied Technology Electives Total</b>	<b>30</b>
<b>AAS Degree in Applied Technology Total</b>	<b>63</b>

# Accounting Technology



## Associate of Applied Science Degree

### Business & Social Science

**Purpose: Career and Technical Education.** The Accounting Technology program is designed for students planning a career that requires expertise in accounting, information systems and/or communications. Possible areas of employment include health care, banking, manufacturing, merchandising and public accounting.

#### FIRST YEAR

##### Fall Semester

Hours

BUED	103	Business English -OR-	3
ENGL	111 <sup>(1)</sup>	College Writing <sup>(2)</sup>	
BUAD	120	Contemporary Business Practices	3
BUED	110 <sup>(1)</sup>	Business Mathematics	3
IST	100	Computer Literacy	3
ACCT	211 <sup>(1)</sup>	Principles of Accounting I	3
BUED	100	Contemporary Business Skills <sup>(3)</sup>	1
<b>TOTAL HOURS</b>			<b>16</b>

##### Spring Semester

Hours

ENGL	111 <sup>(1)</sup>	College Writing -OR-	3
ENGL	112 <sup>(1)</sup>	Advanced College Writing <sup>(2)</sup>	
SCOM	110	Public Speaking	3
GOVT	121	National and State Government	3
BLAW	221	Legal Environment of Business	3
ACCT	212 <sup>(1)</sup>	Principles of Accounting II	3
IST	268 <sup>(1)</sup>	Spreadsheet Applications	3
<b>TOTAL HOURS</b>			<b>18</b>

#### SECOND YEAR

##### Fall Semester

Hours

ACCT	237 <sup>(1)</sup>	Income Tax Accounting	3
ACCT	225 <sup>(1)</sup>	Intermediate Accounting I	3
BUED	203 <sup>(1)</sup>	Business Communications	3
ACCT	258 <sup>(1)</sup>	Cost Accounting	3
ECON	211	Principles of Macroeconomics -OR-	3
ECON	212	Principles of Microeconomics	
<b>TOTAL HOURS</b>			<b>15</b>

##### Spring Semester

Hours

ACCT	217 <sup>(1)</sup>	Accounting Information Systems	3
ACCT	226 <sup>(1)</sup>	Intermediate Accounting II -OR-	3
ACCT	129 <sup>(1)</sup>	Accounting Management Software	
ACCT	297 <sup>(1)</sup>	Internship	5
ACCT	298 <sup>(1)</sup>	Accounting Seminar	1
Elective courses			5
<b>TOTAL HOURS</b>			<b>17</b>

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

<sup>(2)</sup>Students interested in pursuing an advanced degree should take ENGL 111 and ENGL 112.

<sup>(3)</sup>Students completing one unit of high school keyboarding with a "C" or better, or passing a skills based test, or completing BUED 122 Document Processing with a "C" or better may substitute an elective for this course.

# Business Management

## Associate of Applied Science Degree



### Business & Social Science

**Purpose: Career and Technical Education.** The **BUSINESS MANAGEMENT** courses are designed to provide a two-year intensified business program. This program focuses on developing managerial skills needed for positions in the fields of marketing and merchandising. Included in the **BUSINESS MANAGEMENT** program is an internship to provide specialized on-the-job work experience in the career for which the student is training. Students enrolled in the **BUSINESS MANAGEMENT** program have the opportunity to participate in the **MARKETING MANAGEMENT ASSOCIATION (MMA)**.

#### FIRST YEAR

##### Fall Semester

			Hours
BUED	110 <sup>(1)</sup>	Business Mathematics	3
BMGT	105 <sup>(2)</sup>	Career Management	3
BMGT	108	Human Resource Management	3
MKTG	118	Retail Merchandising	3
ACCT	110 <sup>(1)</sup>	Survey of Accounting <sup>(4)</sup>	3
<b>TOTAL HOURS</b>			<b>15</b>

##### Spring Semester

			Hours
ENGL	105 <sup>(1)</sup>	Technical Writing -OR-	3
ENGL	111 <sup>(1)</sup>	College Writing	
MKTG	115	Principles of Marketing	3
MKTG	119 <sup>(3)</sup>	Advertising	3
MKTG	128 <sup>(3)</sup>	Professional Selling	3
		Business Elective <sup>(4)</sup>	3
IST	100	Computer Literacy	3
<b>TOTAL HOURS</b>			<b>18</b>

#### SECOND YEAR

##### Fall Semester

			Hours
BMGT	215	Supervisory Development <i>(first eight weeks)</i>	3
ECON	212	Principles of Microeconomics <i>(first eight weeks)</i>	3
BLAW	221	Legal Environment of Business <i>(first eight weeks)</i>	3
MKTG	297 <sup>(2)</sup>	Internship <i>(second eight weeks)</i>	6
<b>TOTAL HOURS</b>			<b>15</b>

##### Spring Semester

			Hours
BMGT	296 <sup>(3)</sup>	Management Applications	3
GOVT	121	National and State Government	3
BMGT	228	Financial Management	3
SCOM	110	Public Speaking	3
		General Education elective	3
<b>TOTAL HOURS</b>			<b>15</b>

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

<sup>(2)</sup>Students enrolled in these courses can participate in the Marketing Management Association.

<sup>(3)</sup>Students enrolled in these courses can participate in the Marketing Management Association and the Merchants Showcase. The Merchants Showcase is an activity that enhances the classroom instructional program with practical applications.

<sup>(4)</sup>Students may substitute ACCT 211 and 212 for ACCT 110 and a 3-credit hour business elective.

**Students needing additional information are advised to contact the Business Management Department directly. Faculty advisors will provide program information and enrollment assistance.**

## Business Management Evening Degree Program

### Marketing Management Core Courses

			Hours
MKTG	118	Retail Merchandising	3
MKTG	119	Advertising	3
MKTG	128	Professional Selling	3
BMGT	108	Human Resource Management	3
BMGT	215	Supervisory Development	3
BMGT	228	Financial Management	3
MKTG	115	Principles of Marketing	3
BMGT	296	Management Applications	3
<b>TOTAL HOURS</b>			<b>24</b>

### General Business Core Courses

			Hours
BUED	110 <sup>(1)</sup>	Business Mathematics	3
BLAW	221	Legal Environment of Business	3
ACCT	110 <sup>(1)</sup>	Survey of Accounting <sup>(2)</sup>	3
ECON	212	Principles of Microeconomics	3
IST	100	Computer Literacy	3
<b>TOTAL HOURS</b>			<b>15</b>

### Business Electives (12 credit hours)

		<i>Business electives to be approved by the Business Management staff in accordance with individual's career interest.</i>	12
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### General Education Courses

			Hours
ENGL	105 <sup>(1)</sup>	Technical Writing -OR-	3
ENGL	111 <sup>(1)</sup>	College Writing	
GOVT	121	National and State Government	3
SCOM	110	Public Speaking	3
		General Education electives	3
<b>TOTAL HOURS</b>			<b>12</b>

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

<sup>(4)</sup>Students may substitute ACCT 211 and 212 for ACCT 110 and a 3-credit hour business elective.

**Students needing additional information are advised to contact the Business Management Department directly. Faculty advisors will provide program information and enrollment assistance.**

# Information Systems Technology

## Associate of Applied Science Degree

### Business & Social Science

**Purpose: Career and Technical Education.** The **INFORMATION SYSTEMS TECHNOLOGY** program is designed for individuals who are currently employed in the information system field and for high school graduates planning careers in the field of information systems technology. This program prepares students to meet the challenges of the modern office through the application of practical and theoretical general education, hands-on skill development and a coordinated internship project.

### Executive/Legal Option

#### FIRST YEAR Fall Semester Hours

BUED	110 <sup>(1)</sup>	Business Mathematics	3
MST	118	Networking	3
IST	115	Introduction to Information Systems	3
ENGL	111 <sup>(1)</sup>	College Writing	3
BUED	103	Business English	3
<b>TOTAL HOURS</b>			<b>15</b>

#### Spring Semester Hours

ACCT	110 <sup>(1)</sup>	Survey of Accounting <sup>(4)</sup>	3
BUED	122 <sup>(2)</sup>	Document Processing <sup>(3)</sup>	3
BUED	203 <sup>(1)</sup>	Business Communications	3
GOVT	121	National and State Government	3
SCOM	110	Public Speaking	3
IST	148	Office Procedures	3
<b>TOTAL HOURS</b>			<b>18</b>

### SECOND YEAR

#### Fall Semester Hours

ECON	211	Principles of Macroeconomics -OR-	3
ECON	212	Principles of Microeconomics	
BMGT	108	Human Resource Management -OR-	3
BLAW	221	Legal Environment of Business	
IST	126 <sup>(1)</sup>	Word Processing Applications	3
IST	268 <sup>(1)</sup>	Spreadsheet Applications	3
IST	256 <sup>(1)</sup>	Administrative Transcription Fundamentals <sup>(5)</sup>	3
General Education elective			3
<b>TOTAL HOURS</b>			<b>18</b>

#### Spring Semester Hours

IST	257 <sup>(1)</sup>	Advanced Administrative Transcription (first eight weeks) <sup>(6)</sup>	3
IST	258 <sup>(1)</sup>	Office Administration and Supervision (first eight weeks) <sup>(6)</sup>	3
IST	297 <sup>(1)</sup>	Coordinated Internship Project (second eight weeks)	6
<b>TOTAL HOURS</b>			<b>12</b>

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

<sup>(2)</sup>Students completing the Microcomputer Option will take IST 126 Word Processing Applications in place of this course.

<sup>(3)</sup>Students completing one unit of high school keyboarding (typewriting) with a "C" or pass a skills based test, or complete BUED 100 Contemporary Business Skills with a "C" or better may substitute an elective for this course.

<sup>(4)</sup>Students may substitute ACCT 211 Principles of Accounting I for this course.

<sup>(5)</sup>Course is offered only in the Fall semester.

<sup>(6)</sup>Course is offered only in the Spring semester.

### Medical Option

#### FIRST YEAR Fall Semester Hours

BUED	110 <sup>(1)</sup>	Business Mathematics	3
MST	118	Networking	3
IST	115	Introduction to Information Systems	3
ENGL	111 <sup>(1)</sup>	College Writing	3
BUED	103	Business English	3
<b>TOTAL HOURS</b>			<b>15</b>

#### Spring Semester Hours

ACCT	110 <sup>(1)</sup>	Survey of Accounting <sup>(4)</sup>	3
BUED	122 <sup>(2)</sup>	Document Processing <sup>(3)</sup>	3
BUED	203 <sup>(1)</sup>	Business Communications	3
GOVT	121	National and State Government	3
SCOM	110	Public Speaking	3
IST	148	Office Procedures	3
<b>TOTAL HOURS</b>			<b>18</b>

### SECOND YEAR

#### Fall Semester Hours

ECON	211	Principles of Macroeconomics -OR-	3
ECON	212	Principles of Microeconomics	
IST	149	Medical Terminology and Coding <sup>(5)</sup>	3
IST	126 <sup>(1)</sup>	Word Processing Applications	3
IST	268 <sup>(1)</sup>	Spreadsheet Applications	3
IST	256 <sup>(1)</sup>	Administrative Transcription Fundamentals <sup>(5)</sup>	3
General Education elective			3
<b>TOTAL HOURS</b>			<b>18</b>

#### Spring Semester Hours

IST	257 <sup>(1)</sup>	Advanced Administrative Transcription (first eight weeks) <sup>(6)</sup>	3
IST	258 <sup>(1)</sup>	Office Administration and Supervision (first eight weeks) <sup>(6)</sup>	3
IST	297 <sup>(1)</sup>	Coordinated Internship Project (second eight weeks)	6
<b>TOTAL HOURS</b>			<b>12</b>

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

<sup>(2)</sup>Students completing the Microcomputer Option will take IST 126 Word Processing Applications in place of this course.

<sup>(3)</sup>Students completing one unit of high school keyboarding (typewriting) with a "C" or pass a skills based test, or complete BUED 100 Contemporary Business Skills with a "C" or better may substitute an elective for this course.

<sup>(4)</sup>Students may substitute ACCT 211 Principles of Accounting I for this course.

<sup>(5)</sup>Course is offered only in the Fall semester.

<sup>(6)</sup>Course is offered only in the Spring semester.

# Information Systems Technology

Associate of Applied Science Degree

Business & Social Science

AAS

## Microcomputer Option

### FIRST YEAR

#### Fall Semester

Hours

BUED	110 <sup>(1)</sup>	Business Mathematics	3
MST	118	Networking	3
IST	115	Introduction to Information Systems	3
ENGL	111 <sup>(1)</sup>	College Writing	3
BUED	103	Business English	3
		<b>TOTAL HOURS</b>	<b>15</b>

#### Spring Semester

Hours

ACCT	110 <sup>(1)</sup>	Survey of Accounting <sup>(4)</sup>	3
IST	126 <sup>(1)</sup>	Word Processing	3
BUED	203 <sup>(1)</sup>	Business Communications	3
GOVT	121	National and State Government	3
SCOM	110	Public Speaking	3
IST	148	Office Procedures	3
		<b>TOTAL HOURS</b>	<b>18</b>

### SECOND YEAR

#### Fall Semester

Hours

ECON	211	Principles of Macroeconomics -OR-	
ECON	212	Principles of Microeconomics	3
IST	125	Visual BASIC Programming	3
IST	268 <sup>(1)</sup>	Spreadsheet Applications	3
		General Education elective	3
		Elective courses <sup>(2)</sup>	6
		<b>TOTAL HOURS</b>	<b>18</b>

#### Spring Semester

Hours

IST	119 <sup>(1)</sup>	PC Operating Systems (first eight weeks)	3
IST	269 <sup>(1)</sup>	Database Applications (first eight weeks) <sup>(3)</sup>	3
IST	297 <sup>(1)</sup>	Coordinated Internship Project (second eight weeks)	6
		<b>TOTAL HOURS</b>	<b>12</b>

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

<sup>(2)</sup>Students will select an elective from business course offerings approved by instructor.

<sup>(3)</sup>Course is offered only in the Spring semester.

<sup>(4)</sup>Students may substitute ACCT 211 Principles of Accounting I for this course.

Students may elect to take any Information Systems Technology or Microcomputer Support Technology course that is NOT currently a degree requirement, with the approval of the Information Systems department faculty.

# Network Administration

Associate of Applied Science Degree

Business & Social Science

AAS

**Purpose: Career and Technical Education.** The **NETWORK ADMINISTRATION** program prepares students for entry-level positions in networking and microcomputer support. Networking and microcomputer support specialists work with computer systems, both hardware and software, to keep systems performing efficiently and provide secure access to information.

### FIRST YEAR

#### Fall Semester

Hours

ELEC	115	Applied DC & AC Circuits	3
CIVL	106 <sup>(1)</sup>	Technical Math I	3
IST	115	Introduction to Information Systems	3
IST	119	PC Operating Systems	3
MST	118	Networking	3
		Business Elective	3
		<b>TOTAL HOURS</b>	<b>18</b>

#### Spring Semester

Hours

ENGL	111 <sup>(1)</sup>	College Writing	3
MST	116	Microcomputer Hardware	3
MST	217	Networking Security	3
MST	119	Web Page Development and Design	3
SCOM	110	Public Speaking	3
ELEC	207 <sup>(1)</sup>	Industrial Electronic Applications	3
		<b>TOTAL HOURS</b>	<b>18</b>

### SECOND YEAR

#### Fall Semester

Hours

GOVT	121	National and State Government	3
IST	125	Visual BASIC Programming	3
MST	216 <sup>(1)</sup>	Structured Cabling Systems	3
MST	218 <sup>(1)</sup>	Network Administration <sup>(2)</sup>	3
		General Education elective	3
		<b>TOTAL HOURS</b>	<b>15</b>

#### Spring Semester

Hours

MST	219 <sup>(1)</sup>	Advanced Network Administration (first eight weeks) <sup>(3)</sup>	3
IST	216 <sup>(1)</sup>	Introduction to Data Communications (first eight weeks) <sup>(3)</sup>	3
MST	297 <sup>(1)</sup>	Coordinated Internship Project (second eight weeks)	6
		<b>TOTAL HOURS</b>	<b>12</b>

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

<sup>(2)</sup>Course is offered only in the Fall semester.

<sup>(3)</sup>Course is offered only in the Spring semester.

# Criminal Justice

## Associate of Applied Science Degree



### Health & Human Services

**Purpose: Career and Technical Education.** This program prepares individuals for a career in law enforcement and police work. In addition to courses concerned primarily with the activities of police on the operational level, the curriculum includes the legal, social and philosophical basis for law enforcement. This program is applicable to both the pre-service student and the in-service officer. Students enrolling in CRJU 297 Criminal Justice Internship must submit to a criminal background check as part of the course requirements.

#### FIRST YEAR

Fall Semester			Hours
ENGL	105 <sup>(1)</sup>	Technical Writing -OR-	3
ENGL	111 <sup>(1)</sup>	College Writing	
ADJU	100	Introduction to Law Enforcement	3
CRJU		Criminal Justice Elective <sup>(3)</sup>	3
SOCI	111	General Sociology	3
IST	100	Computer Literacy	3
<b>TOTAL HOURS</b>			<b>15</b>

#### Spring Semester

Spring Semester			Hours
CRJU	129	Fundamentals of Search and Seizure	3
CRJU		Criminal Justice Elective <sup>(3)</sup>	3
CRJU	148	Vice and Narcotics	3
ADJU	113	Criminal Law	3
EMDS	103	First Responder Rescue	3
SCOM	110	Public Speaking	3
<b>TOTAL HOURS</b>			<b>18</b>

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

#### SECOND YEAR

Fall Semester			Hours
ADJU	213	Court Procedures	3
ADJU	223	Community Policing and Homeland Security	3
ADJU	243	Police Administration	3
GOVT	121	National and State Government	3
Recommended Elective <sup>(2)</sup>			3
<b>TOTAL HOURS</b>			<b>15</b>

#### Spring Semester

Spring Semester			Hours
ADJU	233	Criminal Investigation	3
CRJU		Criminal Justice Elective <sup>(3)</sup>	3
CRJU	297	Criminal Justice Internship	6
SOCI	234	Social Problems -OR-	3
SOCI	230	Criminology	
<b>TOTAL HOURS</b>			<b>15</b>

<sup>(2)</sup>Recommended Electives: **HIST 111**—American History to 1877; **HIST 112**—American History since 1877; **PSYC 111**—General Psychology; **SOCI 230**—Criminology; **PHIL 233**—Ethics or **CRJU 115**—Ethics in Criminal Justice; **MATH 163**—College Algebra or **MATH 161**—College Mathematics.

<sup>(3)</sup>Criminal Justice Electives: **CRJU 128**—Forensic Science and Criminalistics; **CRJU 138**—Patrol Procedures; **CRJU 158**—Traffic Laws & Investigations; **CRJC 129**—Probation and Parole; **CRJU 115**—Ethics in Criminal Justice

# Diversified Technology

## Associate of Applied Science Degree



### Math, Science & Technology

Three Rivers Community 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 TRCC's 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 TRCC, 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 TRCC 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 an 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).

**Note:** TRCC intends to expand the AAS degree in Diversified Technology program to other career and technical education programs at the eight technical career centers as soon as possible and to other technical career centers and the Mingo Job Corps Center in Puxico, in the very near future.

**Diversified Technology**  
**Auto Collision Technology Option**  
**Associate of Applied Science Degree**

**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	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	National and State Government	3
PHYS	100	Survey of Physics	3
		<b>TOTAL HOURS</b>	<b>18</b>

**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>

**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>

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

**Auto Collision Technology Option Total ..... 68**

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

**Diversified Technology**  
**Auto Service Technology Option**  
**Associate of Applied Science Degree**

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

**Diversified Technology**  
**Building Trades Technology Option**  
**Associate of Applied Science Degree**

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

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

**Building Trades Technology Option Total ..... 68**

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

**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>

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

**Auto Service 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>

**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>

**Diversified Technology**  
**Computer Maintenance Technology** *Option*  
**Associate of Applied Science Degree**

**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	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	National and State Government	3
PHYS	100	Survey of Physics	3
<b>TOTAL HOURS</b>			<b>18</b>

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

**Computer Maintenance Technology Option Total ..... 68**

**Diversified Technology**  
**Cosmetology Technology** *Option*  
**Associate of Applied Science Degree**

**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	110	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	National and State Government	3
PHYS	100	Survey of Physics	3
<b>TOTAL HOURS</b>			<b>18</b>

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

**Cosmetology 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>

**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>

**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>

**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>

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

## Diversified Technology

### Culinary Arts Option

#### Associate of Applied Science Degree

##### 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 SCOM	110 210	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	National and State Government	3
PHYS	100	Survey of Physics	3
		<b>TOTAL HOURS</b>	<b>18</b>

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

**Culinary Arts Option Total ..... 68**

## Diversified Technology

### Diesel Technology Option

#### Associate of Applied Science Degree

##### 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 SCOM	110 210	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	National and State Government	3
PHYS	100	Survey of Physics	3
		<b>TOTAL HOURS</b>	<b>18</b>

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

**Diesel Technology 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>

#### 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>

#### 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>

#### 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>

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

**Diversified Technology**  
**Drafting Technology Option**  
**Associate of Applied Science Degree**

**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 SCOM	110 210	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	National and State Government	3
PHYS	100	Survey of Physics	3
<b>TOTAL HOURS</b>			<b>18</b>

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

**Diversified Technology**  
**Graphic Communications Technology Option**  
**Associate of Applied Science Degree**

**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 SCOM	110 210	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	National and State Government	3
PHYS	100	Survey of Physics	3
<b>TOTAL HOURS</b>			<b>18</b>

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

**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>

**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**

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>

**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>

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

**Graphic Communications Technology Option Total ..... 68**

## Diversified Technology HVAC Technology Option

### Associate of Applied Science Degree

#### 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	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	National and State Government	3
PHYS	100	Survey of Physics	3
<b>TOTAL HOURS</b>			<b>18</b>

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

**HVAC Technology Option Total ..... 68**

## Diversified Technology

## Machine Technology Option

### Associate of Applied Science Degree

#### Math, Science & Technology

**Purpose: Career and Technical Education.** Demands 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	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	National and State Government	3
PHYS	100	Survey of Physics	3
<b>TOTAL HOURS</b>			<b>18</b>

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

**Machine Technology Option Total ..... 68**

#### 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>

#### 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>

#### 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>

#### 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>

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

**Diversified Technology**  
**Manufacturing Technology** *option*  
**Associate of Applied Science Degree**

**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	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	National and State Government	3
PHYS	100	Survey of Physics	3
<b>TOTAL HOURS</b>			<b>18</b>

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

**Manufacturing Technology Option Total ..... 68**

**Diversified Technology**  
**Television/Radio Production** *option*  
**Associate of Applied Science Degree**

**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	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	National and State Government	3
PHYS	100	Survey of Physics	3
<b>TOTAL HOURS</b>			<b>18</b>

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

**Radio/Television Production 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>

**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>

**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>

**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>

**Diversified Technology**  
**Welding Technology Option**  
**Associate of Applied Science Degree**

**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	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	National and State Government	3
PHYS	100	Survey of Physics	3
		<b>TOTAL HOURS</b>	<b>18</b>

**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>

**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>

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

**Welding Technology Option Total ..... 68**



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

# Early Childhood Development

## Associate of Applied Science Degree

### Health & Human Services

**Purpose: Career and Technical Education.** The Early Childhood Development curriculum is designed to both prepare students for employment and for leadership roles in licensed child centers. Although offered as a terminal degree, many courses also transfer into four-year degree institutions' Early Childhood Development programs.

**NOTE:** All students enrolling in ECD 105, ECD 237, ECD 295 and ECD 296 are required to submit proof of current First Aid or CPR certification and a clear criminal background check prior to doing any observations at centers.

#### FIRST YEAR

Fall Semester			Hours
ENGL	111 <sup>(1)</sup>	College Writing	3
BUED	110 <sup>(1)</sup>	Business Mathematics –OR–	3
MATH	153 <sup>(1)</sup>	Intermediate Algebra	3
IST	100	Computer Literacy	3
PSYC	111	General Psychology	3
ECD	202	Survey of Early Childhood Development & Education	3
<b>TOTAL HOURS</b>			<b>15</b>

Spring Semester			Hours
ENGL	112 <sup>(1)</sup>	Advanced College Writing	3
GOVT	121	National and State Government	3
PSYC	223	Child Psychology	3
ECD	126	Child Health, Safety and Nutrition	3
ECD		Early Childhood Development Elective course	3
<b>TOTAL HOURS</b>			<b>15</b>

#### SECOND YEAR

Fall Semester			Hours
SCOM	110	Public Speaking	3
BIOL	101	General Biology	5
ECD	235	Special Children	3
ECD	237	Early Childhood Development Lab	4
ECD	247	Child and Society	3
<b>TOTAL HOURS</b>			<b>18</b>

Spring Semester			Hours
ENGL	253	Children's Literature	3
PHYS	101	Physical Science	5
ECD	245	Management and Relationships	3
ECD	295	Early Childhood Practicum I -OR-	5
ECD	296	Early Childhood Practicum II	
ECD		Early Childhood Development Elective course	3
<b>TOTAL HOURS</b>			<b>19</b>

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

#### Child Care and Guidance Electives

			Hours
ARTS	223	Art for the Elementary Teacher	3
MUSC	263	Music for the Elementary Teacher	3
ENGL	253	Children's Literature	3
HPER	233	Physical Education for the Elementary Teacher	3
ECD	105 <sup>(2)</sup>	CDA Field Experience	5
ECD	298	Special Seminar: Heads Up Reading	3
ECD	295	Early Childhood Practicum I	5
ECD	296	Early Childhood Practicum II	5

# Environmental/Occupational Safety and Health Technology

Associate of Applied Science Degree

**Math, Science & Technology**

**AAS**

**Purpose: Career and Technical Education.** The Environmental/Occupational Safety & Health Technology program prepares students for positions in occupational safety and health or environmental technology. Safety and health specialists work with federal, state, and/or local environmental and occupational regulatory programs. They address compliance issues, worker's compensation, monitoring, training, and recordkeeping in addition to many other requirements.

## FIRST YEAR

**Fall Semester** **Hours**

ENGL	111 <sup>(1)</sup>	College Writing	3
CIVL	106 <sup>(1)</sup>	Technical Math I	3
IST	100	Computer Literacy	3
BMGT	215	Supervisory Development	3
EOSH	115	Communication/Training Methods for Safety and Health Professionals	3
<b>TOTAL HOURS</b>			<b>15</b>

**Spring Semester** **Hours**

GOVT	121	National and State Government	3
SCOM	110	Public Speaking	3
EMDS	103	First Responder Rescue	3
MAFT	229	Introduction to Safety and Health	3
EOSH	116	Introduction to Industrial Hygiene	3
<b>TOTAL HOURS</b>			<b>15</b>

## SECOND YEAR

**Fall Semester** **Hours**

BIOL	102	Environmental Science	5
EOSH	205	Safety & Health Regulations/Standards (OSHA)	3
EOSH	206	Environmental Regulations (EPA)	3
EOSH	215	Transportation, Storage & Handling of Hazardous Materials (DOT)	3
EOSH	216	Waste Management	3
<b>TOTAL HOURS</b>			<b>17</b>

**Spring Semester** **Hours**

CIVL	198	Seminar	1
EOSH	225	Accident Investigation	3
EOSH	226	Emergency Preparedness and Planning	3
		Technical Elective	3
MAFT	297	Internship	6
<b>TOTAL HOURS</b>			<b>16</b>

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

# Forestry Technology

Associate of Applied Science Degree

**AAS**

**Math, Science & Technology**

**Purpose: Career and Technical Education.** This program is designed to enable student to develop skills and knowledge to enter forestry-related fields. The curriculum may be completed in two years by the full-time student.

## FIRST YEAR

**Fall Semester** **Hours**

ENGL	111 <sup>(1)</sup>	College Writing	3
CIVL	106 <sup>(1)</sup>	Technical Math I <sup>(2)</sup>	3
FRST	115	Forest Utilization	3
AGRI	120	Plant Science	4
FRST	117	Dendrology	3
<b>TOTAL HOURS</b>			<b>16</b>

**Spring Semester** **Hours**

GOVT	121	National and State Government	3
CIVL	107	Technical Math II <sup>(2)</sup>	3
CIVL	116	Surveying I	3
AGRI	110	Soil and Soil Fertility	3
IST	100	Computer Literacy	3
FRST	119	Forest Measurements	3
<b>TOTAL HOURS</b>			<b>18</b>

## SECOND YEAR

**Fall Semester** **Hours**

AGRI	122	Natural Resources Management	3
AGRI	260	General Horticulture	3
BMGT	108	Human Resource Management	3
CIVL	216	Surveying II	3
SCOM	110	Public Speaking	3
<b>TOTAL HOURS</b>			<b>15</b>

**Spring Semester** **Hours**

AGRI	172	Integrated Pest Management	3
AGRI	270	Agriculture Systems Management	
AGRI	270	Internship	6
FRST	215	Forest Management Practices	3
FRST	217	Silviculture and Ecology	3
CIVL	198	Workplace Readiness Seminar	1
<b>TOTAL HOURS</b>			<b>16</b>

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

<sup>(2)</sup>Students planning to transfer to a four-year institution should substitute MATH 163, MATH 164 or MATH 170.

# Industrial Technology **AAS**

## Civil & Construction Technology Option

### Associate of Applied Science Degree

#### Math, Science & Technology

**Purpose: Career and Technical Education.** This option in the Industrial Technology program focuses on computer-aided drafting, surveying, general contracting and other civil and construction-related areas. This degree option prepares students for entry-level employment and a foundation for future advancement in civil engineering, construction or surveying, as well as entry into a university-level technology program. The option includes an internship for on-the-job training with area companies.

#### FIRST YEAR

Fall Semester			Hours
ENGL	105 <sup>(1)</sup>	Technical Writing -OR-	3
ENGL	111 <sup>(1)</sup>	College Writing	
CIVL	106 <sup>(1)</sup>	Technical Math I <sup>(2)</sup>	3
CIVL	118	Materials & Methods of Construction	3
IST	100	Computer Literacy	3
ENGR	110	Engineering Graphics	3
<b>TOTAL HOURS</b>			<b>15</b>

Spring Semester			Hours
SCOM	110	Public Speaking	3
PHYS	100	Survey of Physics	3
GOVT	121	National and State Government	3
CIVL	107	Technical Math II <sup>(2)</sup>	3
CIVL	116	Surveying I	3
<b>TOTAL HOURS</b>			<b>16</b>

Summer Term			Hours
MAFT	297	Internship <sup>(3)</sup>	6

#### SECOND YEAR

Fall Semester			Hours
ELEC	115	Applied DC & AC Circuits -OR-	3
CIVL	236	Computers in Surveying	4
CIVL	208	Mechanical & Electrical Systems	3
CIVL	216	Surveying II	3
CIVL	228	Civil Drafting	3
MAFT	258	Engineering Economy	3
<b>TOTAL HOURS</b>			<b>15/16</b>

Spring Semester			Hours
CIVL	218	General Contracting	3
CIVL	215	Residential Design	4
CIVL	219	Estimating	3
CIVL	226	Legal Principles of Surveying	3
CIVL	198	Seminar	1
<b>TOTAL HOURS</b>			<b>14</b>

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

<sup>(2)</sup>Students planning to transfer to a 4-year institution should substitute MATH 163, MATH 164 or MATH 170.

<sup>(3)</sup>Students with extensive full-time industry experience and instructor approval may substitute six credit hours of approved coursework.

# Industrial Technology **AAS**

## Drafting Technology Option

### Associate of Applied Science Degree

#### Math, Science & Technology

**Purpose: Career and Technical Education.** This option in the Industrial Technology program focuses on the knowledge and skills necessary for success in the computer-aided drafting field. This degree option prepares students for entry-level employment and a foundation for future advancement in the architectural, civil and manufacturing industries. The option includes an internship for on-the-job training with area companies.

#### FIRST YEAR

Fall Semester			Hours
IST	100	Computer Literacy	3
ENGL	105 <sup>(1)</sup>	Technical Writing -OR-	3
ENGL	111 <sup>(1)</sup>	College Writing	
CIVL	106 <sup>(1)</sup>	Technical Math I <sup>(2)</sup>	3
CIVL	118	Materials & Methods of Construction	3
ENGR	110	Engineering Graphics	3
<b>TOTAL HOURS</b>			<b>15</b>

Spring Semester			Hours
SCOM	110	Public Speaking	3
PHYS	100	Survey of Physics	3
CIVL	116	Surveying I -OR-	3
MAFT	235	Manufacturing Processes	
CIVL	107	Technical Math II <sup>(2)</sup>	3
CIVL	198	Seminar	1
CIVL	215 <sup>(1)</sup>	Residential Design	4
<b>TOTAL HOURS</b>			<b>17</b>

#### SECOND YEAR

Fall Semester			Hours
GOVT	121	National and State Government	3
CIVL	228 <sup>(1)</sup>	Civil Drafting	3
CIVL	236	Computers in Surveying -OR-	4
MAFT	255	Hydraulics & Pneumatics	
MAFT	258	Engineering Economy	3
MEDR	237 <sup>(1)</sup>	Mechanical CAD	3
<b>TOTAL HOURS</b>			<b>15-16</b>

Spring Semester			Hours
MEDR	240 <sup>(1)</sup>	Technical Illustration	3
MEDR	246 <sup>(1)</sup>	Computer Aided Machining	3
MAFT	228	Quality Assurance	3
MAFT	297	Internship <sup>(3)</sup>	6
<b>TOTAL HOURS</b>			<b>15</b>

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

<sup>(2)</sup>Students planning to transfer to a 4-year institution should substitute MATH 163, MATH 164 or MATH 170.

<sup>(3)</sup>Students with extensive full-time industry experience and instructor approval may substitute six credit hours of approved coursework.

# Industrial Technology **AAS**

## Manufacturing & Industrial Systems Option

### Associate of Applied Science Degree

#### Math, Science & Technology

**Purpose: Career and Technical Education.** This option in the Industrial Technology program focuses on the knowledge and skills necessary for success in the installation and maintenance of commercial and industrial systems. This degree option prepares students for entry-level employment and a foundation for future advancement in the industrial technology and manufacturing sectors, as well as entry into university-level technology programs.

#### FIRST YEAR

Fall Semester			Hours
ENGL	105 <sup>(1)</sup>	Technical Writing -OR-	3
ENGL	111 <sup>(1)</sup>	College Writing	
CIVL	106 <sup>(1)</sup>	Technical Math II <sup>(2)</sup> -OR-	3
MATH	153 <sup>(1)</sup>	Intermediate Algebra (or higher)	
IST	100	Computer Literacy	3
ELEC	115	Applied DC & AC Circuits	3
ENGR	110	Engineering Graphics	3
<b>TOTAL HOURS</b>			<b>15</b>

Spring Semester			Hours
GOVT	121	National and State Government	3
MAFT	228	Quality Assurance	3
MAFT	229	Introduction to Safety & Health	3
CIVL	107	Technical Math II <sup>(2)</sup> -OR-	3
MATH	163 <sup>(1)</sup>	College Algebra (or higher)	
ELEC	207	Industrial Electronics Applications	3
<b>TOTAL HOURS</b>			<b>15</b>

#### SECOND YEAR

Fall Semester			Hours
SCOM	110	Public Speaking	3
PHYS	100	Survey of Physics -OR-	3
PHYS	101	Physical Science	
ELEC	117	Industrial Electronic Controls	3
MAFT	235	Manufacturing Processes	3
MAFT	255	Hydraulics & Pneumatics	3
ELEC	218	Electrical Codes & Standards	2
<b>TOTAL HOURS</b>			<b>17-19</b>

Spring Semester			Hours
ELEC	216	Programmable Controller Systems	3
MAFT	267	Automated Manufacturing Systems	3
MEDR	246	Computer Aided Machining	3
MAFT	297	Internship <sup>(3)</sup>	6
<b>TOTAL HOURS</b>			<b>15</b>

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

<sup>(2)</sup>Students planning to transfer to a four-year institution should substitute MATH 163, MATH 164 or MATH 170.

<sup>(3)</sup>Students with extensive full-time industry experience and instructor approval may substitute six credit hours of approved coursework.

# Industrial Technology **AAS**

## Power Plant Option

### Associate of Applied Science Degree

#### Math, Science & Technology

**Purpose: Career and Technical Education.** This program is designed to enable students to develop skills and knowledge to enter power plant related fields. The curriculum may be completed in two years by the full-time students.

#### FIRST YEAR

Fall Semester			Hours
IST	100	Computer Literacy	3
CIVL	208	Mechanical and Electrical Systems	3
ELEC	115	Applied DC & AC Circuits	3
CIVL	106 <sup>(1)</sup>	Technical Math II <sup>(2)</sup>	3
PPIT	115	Introduction to Power Plant Systems	3
<b>TOTAL HOURS</b>			<b>15</b>

Spring Semester			Hours
MAFT	229	Introduction to Safety & Health	3
ENGL	105 <sup>(1)</sup>	Technical Writing -OR-	3
ENGL	111 <sup>(1)</sup>	College Writing	
CIVL	107	Technical Math II <sup>(2)</sup>	3
ELEC	207	Industrial Electronic Applications	3
MEDR	135	Print Reading & Gauging	3
PPIT	125	Power Plant Boilers & Operations	3
<b>TOTAL HOURS</b>			<b>18</b>

Summer Term			Hours
MAFT	297	Internship <sup>(3)</sup>	6
<b>TOTAL HOURS</b>			<b>6</b>

#### SECOND YEAR

Fall Semester			Hours
ELEC	117	Industrial Electrical Controls	3
GOVT	121	National and State Government	3
ELEC	218	Electrical Codes & Standards	2
MAFT	258	Engineering Economy	3
PPIT	127	Power Plant Cycles <sup>(3)</sup>	3
MAFT	255	Hydraulics & Pneumatics	3
<b>TOTAL HOURS</b>			<b>14-17</b>

Spring Semester			Hours
PHYS	100	Survey of Physics	3
ELEC	216	Programmable Controller Systems	3
SCOM	110	Public Speaking	3
PPIT	129	Power Plant Chemistry <sup>(3)</sup>	3
CIVL	198	Workplace Readiness Seminar	1
PPIT	235	Steam Turbines & Generators	3
<b>TOTAL HOURS</b>			<b>13-16</b>

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

<sup>(2)</sup>Students planning to transfer to a 4-year institution should substitute MATH 163, MATH 164 or MATH 170.

<sup>(3)</sup>Students must complete the 6-hour internship (MAFT 297) OR complete PPIT 127 and PPIT 129. The internship class can be taken in the summer or spring semester after the student has completed at least 30 hours toward the degree.

# Medical Laboratory Technology

## Associate of Applied Science Degree

### Health & Human Services



**Purpose: Career and Technical Education.** The Medical Laboratory program at Three Rivers Community College was developed to meet the increasing demand in the area for highly competent medical laboratory technicians. The purpose of this associate degree program is to prepare selected individuals from the local area to achieve an Associate of Applied Science degree, to be eligible to apply for national registration in Laboratory Medicine by examination as a medical laboratory technician, and to demonstrate professional behaviors and technical skills consistent with employer expectations in the community service area.

Both general education and medical laboratory technology courses are included in the program of study; clinical laboratory experiences are planned in local health care facilities under the direct guidance of the Medical Laboratory Technology faculty. Health care facilities utilized for this program are:

- Poplar Bluff Regional Medical Center (North and South campuses)
- Kneibert Clinic—Poplar Bluff
- John J. Pershing Veterans Administration Medical Center—Poplar Bluff
- Missouri Delta Medical Center—Sikeston
- St. Francis Medical Center—Cape Girardeau
- Pemiscot Memorial Hospital Health Systems—Hayti.

The program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS), 8410 West Bryn Mawr Avenue, Suite 670, Chicago, IL 60631-3415, (773) 714-8880.

**NOTE:** MLT students are required to have one physical examination prior to the beginning of the second-year classes. Students must meet certain criteria for clinical practice in agencies including, but not limited to, random or for-cause drug screenings, negative pre-admission drug screen and criminal background check.

Students must be able to function with sufficient manual dexterity, visual acuity and communication skills to meet job requirements including drawing blood, manipulating specimens and equipment, viewing details under a microscope (including color differentiation), performing quality control measures, operating technical instruments, validating the results, and communicating clearly with patients, families and health care team members.

### Admission Criteria

Because of the number and nature of laboratory courses it is recommended, but NOT required, that applicants complete the general education requirements of the program while awaiting the next admissions cycle.

#### 1. To become an eligible applicant, each individual must have on file no later than May 1:

- Completed college application.
- Completed MLT application on file in the MLT office with appropriate application fee.
- Final high school transcript or GED certificate (A partial transcript in lieu of final is acceptable if high school has not been completed or applicant is presently a high school student.) in the Registrar's office.
- Transcripts of previous college courses, including those completed at TRCC in Admissions.

#### 2. Minimum requirements for initial screening of applicants:

- Placement into intermediate algebra by COMPASS or ACT score, or completion of college level beginning algebra with "credit."
- Successful completion of CHEM 111—Introduction to Chemistry with a grade of "C" or better, or successful completion of MATH 153—Intermediate Algebra or an ACT/COMPASS test score placement of MATH 163—College Algebra.
- Satisfactory performance on a health occupations aptitude examination.
- Applicants meeting the minimum requirements must meet with a MLT faculty member or the Division Chair of Health and Human Services before May 1.

#### 3. Applicants will be notified by letter of their admission status. Final admission is contingent upon submission of a satisfactory confidential medical history and physical exam, a negative drug screen and a negative criminal background check.

**NOTE:** Eligible applicants who are residents of the college district will be given preference for admission. See statement on residence elsewhere in this catalog.

In addition to the college tuition and fees, MLT students will be charged \$15 per academic year for student malpractice insurance, \$50 per credit hour MDLB courses, and \$65 per semester for lab supplies, name badges, photos and registry review.

### Progression And Retention Policy

1. Students must maintain a cumulative grade point average of 2.0 throughout their enrollment in the MLT program in accordance with college policies regarding academic standing as outlined in the current TRCC Bulletin under ACADEMIC STANDING.

2. Students must achieve a minimum grade of "C" as well as a satisfactory grade for the clinical component of each MLT course. In the instructional Med Lab courses, a laboratory evaluation of the following percentages must be achieved.

Hematology	70%
Introduction to Laboratory Sciences	70%
Microbiology	70%
Chemistry Instrumentation	70%
Immunochemistry	80%
Immunology	70%
Clinical Chemistry	70%

In the clinical practicum courses a 70% must be achieved on behavior/performance evaluation and all competencies must be completed. A grade of unsatisfactory as defined above will result in a nonpassing grade for the course regardless of the theory grade.

3. Students must achieve a "C" in MLT related courses. Related courses are defined as: Anatomy and Physiology I and II, General Chemistry I, Organic Chemistry, Introduction to Chemistry and Intermediate Algebra.

4. Any student who earns a final grade lower than "C" in any MLT or MLT-related course must repeat the course and earn a final grade of "C" or higher before that course can be used as a prerequisite for any other MLT course or before that student can graduate from the program. Students who must repeat a course will be admitted to that course on a space available basis.

## Medical Laboratory Technology courses

### FIRST YEAR

#### Fall Semester

Hours

MDLB	118	Hematology and Coagulation	5
MDLB	115	Introduction to Laboratory Science	1
BIOL	231	Anatomy and Physiology I	4
ENGL	111 <sup>(1)</sup>	College Writing	3
CHEM	121 <sup>(1)</sup>	General Chemistry I	5
		<b>TOTAL HOURS</b>	<b>18</b>

#### Spring Semester

Hours

MDLB	128	Clinical Microbiology	5
CHEM	131	Organic Chemistry	5
BIOL	232	Anatomy and Physiology II	4
MDLB	138	Immunohematology	3
		<b>TOTAL HOURS</b>	<b>17</b>

#### Summer Term

Hours

GOVT	121	National and State Government	3
MATH	153 <sup>(1)</sup>	Intermediate Algebra	3
		Psychology or Sociology	3
IST	100	Computer Literacy	3
		<b>TOTAL HOURS</b>	<b>12</b>

### SECOND YEAR

#### Fall Semester

Hours

MDLB	248 <sup>(3)</sup>	Clinical Chemistry	5
MDLB	296 <sup>(2)</sup>	Hematology and Coagulation Clinical Practicum	4
MDLB	297 <sup>(2)</sup>	Clinical Chemistry Practicum	4
MDLB	298 <sup>(2)</sup>	Immunohematology Clinical Practicum	4
MDLB	299 <sup>(2)</sup>	Microbiology Clinical Practicum	4
		<b>TOTAL HOURS</b>	<b>13</b>

#### Spring Semester

Hours

MDLB	245 <sup>(3)</sup>	Clinical Instrumentation	1
MDLB	228 <sup>(3)</sup>	Immunology	3
MDLB	296 <sup>(2)</sup>	Hematology and Coagulation Clinical Practicum	4
MDLB	297 <sup>(2)</sup>	Clinical Chemistry Practicum	4
MDLB	298 <sup>(2)</sup>	Immunohematology Clinical Practicum	4
MDLB	299 <sup>(2)</sup>	Microbiology Clinical Practicum	4
		<b>TOTAL HOURS</b>	<b>13</b>

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

<sup>(2)</sup>Two of the four courses are completed in the fall semester and the remaining two in the spring semester. Courses are four weeks in length.

<sup>(3)</sup>Courses are eight weeks in length.

## Nursing

AAS

### Associate of Applied Science Degree

#### Health & Human Services

**Purpose: Career and Technical Education.** The purpose of this nursing program is to prepare students to achieve an Associate of Applied Science degree, to apply for licensure by examination\* as a registered nurse, and to use the nursing process in providing safe and effective nursing care for clients in structured primary or secondary care settings.

Both general education and nursing education courses are included in the program of study; clinical laboratory experiences are planned in local health care facilities under the direct guidance of the Nursing faculty. Students enrolled in the nursing program have the same privileges and responsibilities accorded all students of the college.

The program has full approval by the Missouri State Board of Nursing, PO Box 656, Jefferson City, MO 65102, (573) 751-0080, and accredited by the National League for Nursing Accrediting Commission, 61 Broadway, New York, NY 10006, (212) 363-5555. The NLNAC is a resource for information regarding tuition, fees, and length of programs. Enrollment is limited to 30 students per class. Selected students who are Missouri Licensed Practical Nurses may qualify to follow the Bridge Curriculum.

**NOTE:** Nursing students are required to have two physical examinations, one as part of the admission process and the second prior to the beginning of second-year classes. Students must meet certain health criteria for clinical practice in agencies, including but not limited to random or for-cause drug screening. CPR certification valid through the academic year is required of all students. Nursing students are also required to submit a criminal background check and negative pre-admission drug screen.

\*The requirements for licensure, as set forth in Missouri Statutes 335 RSMo 2005 (the Nurse Practice Act), include being of good moral character, completion of the high school course of study or the equivalent, successful completion of the basic professional nursing curriculum in an approved school of nursing (however, successful completion does not guarantee eligibility to take the licensure examination).<sup>†</sup> Non-English speaking candidates are required to submit evidence of proficiency in the English language. There are also questions related to adjudication of any crime other than traffic violations, including unlawful use or possession of controlled substances or alcoholic beverage to an extent that one is impaired, fraud, dishonesty, acts of violence, bribery, deception, misconduct, insanity, incompetence, and placement on employee disqualification lists by any state or federal agency. Affirmative answers may result in the applicant being denied access to the licensure examination by the State Board of Nursing. For further information, consult the division chair.

<sup>†</sup>A complete copy of Missouri Statute 335.066 is available in the Nursing department.

# Associate Degree in Nursing

## Admission Criteria

1. To become an eligible applicant, each individual must have the following on file in the admissions office no later than **Feb. 1** for on-campus day program, **July 1** for on-campus evening program, and **Nov. 1** for Sikeston:
  - Completed college application;
  - COMPASS, ACT or SAT scores (current within last five years);
  - Final high school transcript or GED certificate (a partial is acceptable in lieu of final if high school has not been completed or if applicant is currently a high school student)—**Required by Missouri State Board of Nursing**;
  - Transcripts of previous college courses; and
  - Completed, current nursing application and appropriate application fee that is sent to the Nursing department on campus (see application for fee).

For the on-campus day program, applications must be postmarked or shipped by other traceable means by midnight on Feb. 1. Hand-delivered nursing applications must be received in the Nursing Office by 4 p.m. on Feb. 1 or the next TRCC business day if the deadline falls on either a weekend or holiday.

For the on-campus evening program, applications must be postmarked or shipped by other traceable means by midnight on July 1. Hand-delivered nursing applications must be received in the Nursing Office by 4 p.m. on July 1 or the next TRCC business day if the deadline falls on either a weekend or holiday.

For the Sikeston program, applications must be postmarked or shipped by other traceable means by midnight on Nov. 1. Hand-delivered nursing applications must be received in the Nursing Office by 4 p.m. on Nov. 1 or the next TRCC business day if the deadline falls on either a weekend or holiday.

The application fee covers the cost of the test and must be sent with the application. Applications received without the appropriate fee are incomplete.

2. The Nursing Admissions Committee uses the following minimum requirements for the initial screening of applicants:
  - Eligible for entry into ENGL 111 College Writing (completion of developmental coursework or appropriate ACT/COMPASS score);
  - Completion of either one year of high school algebra with a grade of “C” or better in each semester (**current within five years**) OR college-level Beginning Algebra with “credit”;
  - Completion of either one year of high school chemistry with a grade of “C” or better in each semester (**current within five years**) OR college-level Introduction to Chemistry (with lab) with a grade of “C” or better (Only applicants who are current high school seniors will be considered eligible while enrolled in either algebra and/or chemistry. If selected, admission is contingent upon meeting the grade criteria as stated above);
  - Eligible applicants will either rank in the upper 1/3 of their high school graduation class or complete a minimum grade point average of 2.5 on all credit hours attempted; and
  - Satisfactory performance on the NLN Pre-Admission Examination RN (minimum 60th percentile composite score). **NLN scores must be current within two years of application deadline.**

3. Applicants will be notified of their admission status by letter. Individuals selected are required to have a physical examination, preadmission drug screen and criminal background check. Final admission is contingent upon submission of a satisfactory confidential medical history and examination, negative drug screen and a negative criminal background check (see prior note on Nurse Practice Act).
4. Transfer and Readmission Requests must be received in writing by **July 15** for fall courses and by **Dec. 1** for spring courses for credential evaluation. Contact the Nursing Department for transfer packets and instructions.

**NOTES:** Eligible applicants who are residents of the College District will be given preference for admission. See statement on Residence elsewhere in this catalog.

In addition to the college tuition and fees, nursing students will be charged \$15 per academic year for malpractice insurance, \$50 per credit hour clinical fee for courses with clinical components, and \$112 per nursing course fee for instructional support items such as achievement tests, name badges, fingerprinting/photos, medical supplies for lab, and final review course. Contact the Nursing department for a detailed cost estimate for the each specific program plan.

## Progression and Retention Criteria

1. Students must maintain a cumulative grade point average throughout their enrollment in the nursing program in accordance with college policies regarding probation and suspension, as outlined elsewhere in the TRCC Catalog.
2. In order to progress in the nursing sequence:
  - Students must achieve satisfactory clinical performance, satisfactory skills lab performance and a minimum grade of “C” for each nursing course in order to progress to the next nursing course.
  - Students failing to achieve satisfactory clinical performance or skills laboratory performance will receive a course grade of “F” regardless of the grade in the theory portion of the course.
  - Students receiving less than a “C” in a nursing course must repeat and pass the course with a “C” or better before progression will be permitted. A nursing course can be repeated only once.
  - Students must achieve a minimum grade of “C” in nursing-related courses. Nursing-related courses are: Microbiology, Introduction to Clinical Pharmacology, Clinical Pharmacology, and Anatomy and Physiology I and II.
  - Supporting general education pre-requisites/and co-requisite courses must be taken in the sequence listed in the student’s program option.

# Nursing Day Program Curriculum

## FIRST YEAR

### Summer Term Hours

ENGL	111 <sup>(1)</sup>	College Writing	3
BIOL	253	Microbiology	4
<b>TOTAL HOURS</b>			<b>7</b>

### Fall Semester Hours

NURS	116	Foundations of Nursing Practice	8
PSYC	243	Human Development Across the Lifespan	3
BIOL	231	Anatomy and Physiology I	4
ALHE	117	Introduction to Clinical Pharmacology	1
<b>TOTAL HOURS</b>			<b>16</b>

### Spring Semester Hours

NURS	126	Nursing Interventions I	4
NURS	127	Nursing Interventions II	4
BIOL	232	Anatomy and Physiology II	4
PSYC	111	General Psychology	3
<b>TOTAL HOURS</b>			<b>15</b>

## SECOND YEAR

### Fall Semester Hours

NURS	226	Nursing Interventions III	4
NURS	227	Nursing Interventions IV	4
IST	100	Computer Literacy	3
ALHE	217	Clinical Pharmacology	2
SOCI	111	General Sociology	3
<b>TOTAL HOURS</b>			<b>16</b>

### Spring Semester Hours

NURS	228	Nursing Interventions V	10
NURS	229	Nursing QUEST	1
NURS	235	Role Integration	2
GOVT	121	National and State Government	3
<b>TOTAL HOURS</b>			<b>16</b>

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

<b>General Education Credit</b> .....	<b>30</b>
<b>Nursing Education Credit</b> .....	<b>40</b>
<b>TOTAL CREDIT HOURS</b> .....	<b>70</b>

# Nursing Evening Program Curriculum

## FIRST YEAR

### Spring Semester Hours

NURS	116	Foundations of Nursing Practice	8
BIOL	231	Anatomy and Physiology I	4
PSYC	243	Human Development Across the Lifespan	3
ALHE	117	Introduction to Clinical Pharmacology	1
<b>TOTAL HOURS</b>			<b>16</b>

### Summer Term Hours

ENGL	111 <sup>(1)</sup>	College Writing	3
BIOL	253	Microbiology	4
<b>TOTAL HOURS</b>			<b>7</b>

### Fall Semester Hours

NURS	126	Nursing Interventions I	4
NURS	127	Nursing Interventions II	4
BIOL	232	Anatomy and Physiology II	4
PSYC	111	General Psychology	3
<b>TOTAL HOURS</b>			<b>15</b>

## SECOND YEAR

### Spring Semester Hours

NURS	226	Nursing Interventions III	4
NURS	227	Nursing Interventions IV	4
ALHE	217	Clinical Pharmacology	2
SOCI	111	General Sociology	3
IST	100	Computer Literacy	3
<b>TOTAL HOURS</b>			<b>16</b>

### Fall Semester Hours

NURS	228	Nursing Interventions V	10
NURS	229	Nursing QUEST	1
NURS	235	Role Integration	2
GOVT	121	National and State Government	3
<b>TOTAL HOURS</b>			<b>16</b>

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

<b>General Education Credit</b> .....	<b>30</b>
<b>Nursing Education Credit</b> .....	<b>40</b>
<b>TOTAL CREDIT HOURS</b> .....	<b>70</b>

# LPN to ADN Bridge

## Associate of Applied Science Degree



### Health & Human Services

The LPN/ADN Bridge Curriculum is designed for students selected for admission to the nursing program who are Missouri Licensed Practical Nurses interested in achieving an Associate of Applied Science degree and in applying for licensure by examination as a Registered Nurse. The Bridge Student will have one of two options for completion of the nursing program. The one-year option (A) is designed for quicker finishing, but requires a heavier academic load each semester. The two-year option (B) allows for a lighter academic load each semester and can be completed in 4 semesters.

**BRIDGE students must meet the same admission criteria as other nursing students. To qualify, the selected student must additionally:**

- Be currently licensed in the State of Missouri as a Licensed Practical Nurse;
- Demonstrate satisfactory performance on the NLN ACE I PN-RN Examination for Foundations (Minimum Decision Score 60); and
- Demonstrate satisfactory performance on the NLN ACE I PN-RN Examination for Child Bearing and Nursing of Children (Minimum Decision Score 60)

Upon successful completion of NURS 226 and NURS 227, 17 hours of nursing credit are articulated (NURS 116, 126, 127 & ALHE 117), and upon successful completion of BIOL 232 and PSYC 111, 7 hours of general education credit are articulated for BIOL 231 and PSYC 243.

### OPTION A: One Year (Three Semesters)

Summer Term			Hours
NURS	105 <sup>(2)</sup>	LPN Bridge Course	2
PSYC	111	General Psychology	3
BIOL	253	Microbiology	4
ENGL	111 <sup>(1)</sup>	College Writing	3
<b>TOTAL HOURS</b>			<b>12</b>

Fall Semester			Hours
NURS	226	Nursing Interventions III	4
NURS	227	Nursing Interventions IV	4
SOCI	111	General Sociology	3
IST	100	Computer Literacy	3
ALHE	217	Clinical Pharmacology	2
<b>TOTAL HOURS</b>			<b>16</b>

Spring Semester			Hours
NURS	228	Nursing Interventions V	10
NURS	229	Nursing QUEST	1
NURS	235	Role Integration	2
GOVT	121	National and State Government	3
<b>TOTAL HOURS</b>			<b>16</b>

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

<sup>(2)</sup>BIOL 232 A & P II is prerequisite for NURS 105 (4 hours).

<b>General Education Credit</b> .....	<b>23</b>
Articulated General Education credit .....	7
<b>Nursing Education Credit</b> .....	<b>25</b>
Articulated General Education credit .....	17
<b>TOTAL CREDIT HOURS</b> .....	<b>72</b>
<i>(includes prerequisite and articulated credits)</i>	

### OPTION B: 17 Months (Four Semesters)

Spring Semester			Hours
ENGL	111 <sup>(1)</sup>	College Writing	3
BIOL	232	Anatomy and Physiology II	4
GOVT	121	National and State Government	3
PSYC	111	General Psychology	3
SOCI	111	General Sociology	3
<b>TOTAL HOURS</b>			<b>16</b>

Summer Term			Hours
NURS	105 <sup>(2)</sup>	LPN Bridge Course	2
BIOL	253	Microbiology	4
<b>TOTAL HOURS</b>			<b>6</b>

Fall Semester			Hours
NURS	226	Nursing Interventions III	4
NURS	227	Nursing Interventions IV	4
IST	100	Computer Literacy	3
ALHE	217	Clinical Pharmacology	2
<b>TOTAL HOURS</b>			<b>13</b>

Spring Semester			Hours
NURS	228	Nursing Interventions V	10
NURS	229	Nursing QUEST	1
NURS	235	Role Integration	2
<b>TOTAL HOURS</b>			<b>13</b>

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

<sup>(2)</sup>BIOL 232 A & P II is prerequisite for NURS 105 (4 hours).

<b>General Education Credit</b> .....	<b>23</b>
Articulated General Education credit .....	7
<b>Nursing Education Credit</b> .....	<b>25</b>
Articulated General Education credit .....	17
<b>TOTAL CREDIT HOURS</b> .....	<b>72</b>
<i>(includes prerequisite and articulated credits)</i>	



# Paraprofessional Educator

Associate of Applied Science Degree

**Math, Science & Technology**

**AAS**

**Purpose: Career and Technical Education.** The Paraprofessional Educator program prepares students for paraprofessional positions in the public elementary, middle and high schools, preschools and private schools. Paraprofessional educators work alongside the regular classroom teacher helping students with their studies. They often work extensively with special needs children.

## FIRST YEAR

### Fall Semester

			Hours
ENGL	111 <sup>(1)</sup>	College Writing	3
GOVT	121	National and State Government	3
SCOM	110	Public Speaking	3
MATH		Any 100-level Mathematics course	3
PSYC	111	General Psychology	3
HPER	110	Lifetime Wellness	2
<b>TOTAL HOURS</b>			<b>17</b>

### Spring Semester

			Hours
ENGL	112 <sup>(1)</sup>	Advanced College Writing	3
EDUC	201	Teaching Profession with Field Experience	3
BIOL PHYS		Biological Science <i>-OR-</i> Physical Science	5
HIST	111	American History to 1877 <i>-OR-</i>	
HIST	112	American History since 1877	3
ECD	126	Child Health, Safety and Nutrition	3
<b>TOTAL HOURS</b>			<b>17</b>

## SECOND YEAR

### Fall Semester

			Hours
ARTS	223	Art for the Elementary Teacher	3
EDUC	210	Educational Psychology	3
EDUC	230	Foundations of Education	3
PSYC	223	Child Psychology	3
MUSC	263	Music for the Elementary Teacher	3
<b>TOTAL HOURS</b>			<b>15</b>

### Spring Semester

			Hours
HPER	233	Physical Education for the Elementary Teacher	3
ENGL	253	Children's Literature	3
EDUC	260	Education of Exceptional Learners	3
EDUC	270	Technology for Teachers	3
EDUC	297	Paraprofessional Educator Practicum	3
<b>TOTAL HOURS</b>			<b>15</b>

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

### Additional Suggested Electives

ECD	202	Survey of Early Childhood Development & Education	3
MUSC	263	Music for the Elementary Teacher	3
HPER	233	Physical Education for the Elementary Teacher	3

## LPN to ADN Bridge

**EVENING BRIDGE: 17 Months (Three Semesters)**

### Fall Semester

			Hours
NURS	105 <sup>(2)</sup>	LPN Bridge Course	2
ENGL	111 <sup>(1)</sup>	College Writing	3
BIOL	253	Microbiology	4
PSYC	111	General Psychology	3
IST	100	Computer Literacy	3
<b>TOTAL HOURS</b>			<b>15</b>

### Spring Semester

			Hours
NURS	226	Nursing Interventions III	4
NURS	227	Nursing Interventions IV	4
ALHE	217	Clinical Pharmacology	2
SOCI	111	General Sociology	3
<b>TOTAL HOURS</b>			<b>13</b>

### Fall Semester

			Hours
NURS	228	Nursing Interventions V	10
NURS	229	Nursing QUEST	1
NURS	235	Role Integration	2
GOVT	121	National and State Government	3
<b>TOTAL HOURS</b>			<b>16</b>

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

<sup>(2)</sup>BIOL 232 A & P II is prerequisite for NURS 105 (4 hours).

**General Education Credit** .....23

Articulated General Education credit..... 7

**Nursing Education Credit** .....25

Articulated General Education credit..... 17

**TOTAL CREDIT HOURS** .....72

(includes prerequisite and articulated credits)

# Occupational Education

## Associate of Applied Science Degree



### Math, Science & Technology

**Purpose: Career and Technical Education.** The Occupational Education degree program provides the opportunity for current and prospective instructors to develop general education, managerial and technical skills needed to be successful in state-of-the-art classrooms and laboratories. Completion of this professional development program will lead to a Missouri Vocational Teaching Certificate and an Associate of Applied Science (AAS) degree.

### I. GENERAL EDUCATION BLOCK

Minimum Credit Hours: 21

#### Communications (choose one from each category) ..... 6

ENGL	105 <sup>(1)</sup>	Technical Writing -OR-	3
ENGL	111 <sup>(1)</sup>	College Writing	3
SCOM	210	Interpersonal Communications -OR-	3
SCOM	110	Public Speaking	3

#### Mathematics (choose one course) ..... 3

ACCT	211	Principles of Accounting I	3
BUED	110	Business Math	3
CIVL	106 <sup>(1)</sup>	Technical Math I	3
MATH	161 <sup>(1)</sup>	College Mathematics	3
MATH	163 <sup>(1)</sup>	College Algebra	3

#### Human & Cultural Development ..... 6

GOVT	121	National and State Government <sup>(2)</sup> (required)	3
		AND choose one course from the following:	
GEOG	111	Regional World Geography I	3
GEOG	112	Regional World Geography II	3
HIST	111	American History to 1877	3
HIST	112	American History since 1877	3
HIST	121	World Civilization to the Renaissance	3
HIST	122	World Civilization since the Renaissance	3
PHIL	200 <sup>(1)</sup>	Introduction to Philosophy	3
PSYC	111	General Psychology	3
PSYC	243	Human Development Across the Lifespan	3
SOCI	111	General Sociology	3

#### Scientific Knowledge and Technology Skills (choose one course) ..... 3-5

AGRI	120	Plant Science	3
AGRI	130	Animal Science	3
BIOL	100	Survey of Biology	3
BIOL	101	General Biology	5
BIOL	102	Environmental Science	5
BIOL	231	Anatomy and Physiology I	4
BIOL	232	Anatomy and Physiology II	4
CHEM	111	Introductory Chemistry	5
CHEM	121 <sup>(1)</sup>	General Chemistry I	5
IST	100	Computer Literacy	3
PHYS	100	Survey of Physics	3
PHYS	101	Physical Science	5

#### General Education Elective ..... 3

Choose one general education course totaling at least three credit hours.

### II. TECHNICAL EDUCATION BLOCK<sup>(3)</sup>

Minimum Credit Hours: 24

- Validated occupational competencies in a specific occupation (0-24) –OR–
- Technical education courses in a selected area (0-24)

### III. EDUCATION BLOCK<sup>(4)</sup>

Minimum Credit Hours: 18

#### Professional Education ..... 9

- New Teacher Institute<sup>(5)</sup>
- Selection and Organization of Vocational Subject Matter (Curriculum Development) or equivalent course
- Principles of Teaching Industrial Subjects (Methods of Teaching) or equivalent course

#### Education Support ..... 9

Choose any three courses or equivalents from the following<sup>(3)</sup>:

Philosophy of Vocational Education	Vocational Guidance
Missouri Applied Academics	Foundations of Adult Education
Principles of Cooperative Vocation Education	Educational Psychology
Measurement and Evaluation	Occupational Analysis
Coordination of Cooperative Education	Tech Prep

#### TOTAL CREDIT HOURS ..... 63

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

<sup>(2)</sup>Must satisfy Missouri Law to include instruction in Federal and State Constitution.

<sup>(3)</sup>At least three years full-time documented work experience in an applicable career and technical education area is required. Knowledge and skills must be validated by possessing an occupational credential(s) such as a state/national Occupational Skill Certification (recognized by the National Skill Standards Board) and/or through a process of state/nationally recognized Occupational Skill Performance Assessment such as the National Occupational Competency Testing Institute (NOCTI). Validation can also be achieved by obtaining documented recommendation from the American Council on Education (ACE) for military experience or industrial-level with experience. Student must complete the Technical Education Equivalency Evaluation Request. This form is available from the Director of Career Education and Workforce Development or the TRCC Registrar.

<sup>(4)</sup>Professional Education and Education Support courses will be provided and transcribed to Three Rivers Community College through a collaborative partnership with Missouri four-year teacher education institutions. Course titles listed in the Professional Educational and Education Support may not necessarily be the same within all cooperating four-year institutions; however, they do reflect the intended course content. The selected courses must satisfy the Certification Requirements for Trade, Industrial, and Health Sciences Education Instructors established by the Missouri Department of Elementary and Secondary Education (DESE). Alternate courses from the Education Support Section of the Education Block may be substituted with the permission of the cooperating four-year institution.

<sup>(5)</sup>The New Teacher Institute (NTI) is required for all trade, industrial, and health sciences instructors certified after Sept. 30, 2000. For those instructors certified before Sept. 30, 2000, a course from the Education Support list or an equivalent course may be substituted.

Upon completion of the AAS degree, participants will be able to advance to a Bachelor of Science degree program at a cooperating Missouri four-year teacher education institution to continue their teacher education and other course work.