Southeast Missouri Regional Tech Prep Education Program Course of Study

Automotive Technology

Area Career Center or Comprehensive High School
Career Pathway: Industrial & Engineering Technology

Required for Admission:
- Average or Above Reading Ability

Prerequisite or Co-requisite:
- Applied Mathematics I and II or Algebra I

All prerequisite courses must be completed with a grade of "C" or above

Not Required for Admission but Strongly Recommended High School Courses:
- Applied Communications
- Algebra II
- Principles of Technology I and II or Physics
- Basic Electricity/Electronics

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**Communication Electives** (1 Written & 1 Oral)
- ENG132 Applied Communications * (3) (Written)
- ENG133 English Composition I+ (3) (Written)
- ENG167 Interpersonal Communications I (3) (Oral)
- ENG144 Public Speaking+ (3) (Oral)
- TEC104 Technical Writing * (3) (Written)

**Human Development Electives**
- SOC113 General Sociology (3)
- SOC140 Human Relations * (3)
- SY113 General Psychology I+ (3)
- PSY116 Applied Psychology (3)

**History/Political Science Electives**
- HIS123 American History I (3)
- HIS124 American History II (3)
- POS113 American National Government+ (3)
- POS114 American State and Local Government+ (3)
- POS133 International Relations (3)

**Mathematics Electives**
- MAT113 Intermediate Algebra * (3)
- MAT114 Applied Mathematics * (3)
- MAT123 College Algebra+ (3)
- MAT133 Trigonometry+ (3)
- MAT160 Calculus for Business/Social Sciences+ (3)
- MAT165 Analytical Geometry & Calculus I+ (5)
- MAT215 Analytical Geometry & Calculus II+ (5)
- TEC190 Technical Mathematics I+ (3)
- TEC191 Technical Mathematics II+ (3)

**Physical Science Electives**
Any Physical Science course with a PHS prefix
- TEC107 Unified Technical Concepts I+ (4)
- TEC108 Unified Technical Concepts II+ (4)

**Computer Literacy**
- CIS105 Introduction to Computers (3)
- CIS175 Microcomputer Applications * (3)

* Designates courses with prerequisites
+ Designates recommended courses for students planning to transfer to another institution or another program in the future

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**MINERAL AREA COLLEGE**

ASSOCIATE OF APPLIED SCIENCE

AUTOMOTIVE TECHNOLOGY

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>AUT108</td>
<td>Introduction to Automotive Tech (cc)</td>
<td>3</td>
</tr>
<tr>
<td>AUT120</td>
<td>Automotive Electrical Systems I (cc)</td>
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<td>AUT122</td>
<td>Automotive Electrical Systems II (cc)</td>
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<td>AUT124</td>
<td>Automotive Electrical Systems III (cc)</td>
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<td>AUT130</td>
<td>Automotive Braking Systems Drum (cc)</td>
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<tr>
<td>AUT132</td>
<td>Automotive Braking Systems Disc (cc)</td>
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<tr>
<td>AUT140</td>
<td>Automotive Steering &amp; Suspension (cc)</td>
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<tr>
<td>AUT150</td>
<td>Emissions &amp; Fuel Control Systems (cc)</td>
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<td>AUT160</td>
<td>Automotive Heating &amp; Air Cond. (cc)</td>
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<tr>
<td>AUT170</td>
<td>Automotive Tire &amp; Wheel Align. (cc)</td>
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<td>AUT180</td>
<td>Automotive Electronic Test Equip. (cc)</td>
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<tr>
<td>AUT190</td>
<td>Automotive Tech Internship I</td>
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<td>AUT192</td>
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<td>PAW106</td>
<td>Preparation for Employment (cc)</td>
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<td>PAW120</td>
<td>Occupational Leadership Dev. I (cc)</td>
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<tr>
<td>PAW122</td>
<td>Occupational Leadership Dev. II (cc)</td>
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**Communication Electives (6):**
- ENG132 Applied Communications * (3)
- ENG133 English Composition I+ (3)
- ENG167 Interpersonal Communications I (3)
- ENG144 Public Speaking+ (3)
- TEC104 Technical Writing * (3)

**Human Development Electives (3):**
- SOC113 General Sociology
- SOC140 Human Relations
- SY113 General Psychology I+

**History/Political Science Elective (3):**
- HIS123 American History I
- HIS124 American History II
- POS113 American National Government+
- POS114 American State and Local Government+
- POS133 International Relations

**Mathematics Electives (6 - 10):**
- MAT113 Intermediate Algebra *
- MAT114 Applied Mathematics *
- MAT123 College Algebra+
- MAT133 Trigonometry+ 
- MAT160 Calculus for Business/Social Sciences+
- MAT165 Analytical Geometry & Calculus I+
- MAT215 Analytical Geometry & Calculus II+
- TEC190 Technical Mathematics I+
- TEC191 Technical Mathematics II+

**Physical Science Elective (3 - 5):**
- Any Physical Science course with a PHS prefix
- TEC107 Unified Technical Concepts I+
- TEC108 Unified Technical Concepts II+

**Computer Literacy Elective (3):**
- CIS105 Introduction to Computers
- CIS175 Microcomputer Applications *

Total Cr. Hrs. 66 - 72

(cc) These courses are available only through the area career centers or comprehensive high schools.

Revised: November 2002