Manufacturing Technology Associate of Applied Science Degree

MAJOR AND ELECTIVES:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEC102</td>
<td>Introduction to Technology</td>
<td>1</td>
</tr>
<tr>
<td>TEC115</td>
<td>Engineering Drawing</td>
<td>3</td>
</tr>
<tr>
<td>TEC130</td>
<td>Computer Aided Design/Drafting</td>
<td>3</td>
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<tr>
<td>TEC135</td>
<td>Introduction to Robotics</td>
<td>3</td>
</tr>
<tr>
<td>TEC150</td>
<td>Plant Layout</td>
<td>3</td>
</tr>
<tr>
<td>TEC156</td>
<td>Mfg. Process &amp; Estimating</td>
<td>3</td>
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<tr>
<td>TEC158</td>
<td>QC &amp; Testing Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>TEC172</td>
<td>Mechanisms</td>
<td>3</td>
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<tr>
<td>TEC173</td>
<td>Problem Analysis</td>
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</tr>
<tr>
<td>TEC177</td>
<td>Computer Numerical Control</td>
<td>3</td>
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<td>TEC178</td>
<td>Blueprint Reading</td>
<td>3</td>
</tr>
<tr>
<td>TEC181</td>
<td>NC Planning &amp; Tooling</td>
<td>3</td>
</tr>
<tr>
<td>TEC203</td>
<td>Basic Fluid Power</td>
<td>3</td>
</tr>
<tr>
<td>EEE150</td>
<td>Basic Electronics</td>
<td>3</td>
</tr>
<tr>
<td>EEE155</td>
<td>Electrical Systems</td>
<td>3</td>
</tr>
<tr>
<td>PAW106</td>
<td>Preparation for Employment</td>
<td>1</td>
</tr>
<tr>
<td>TEC/EEE Elective</td>
<td></td>
<td>3</td>
</tr>
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GENERAL EDUCATION:

Communications Electives ........................................... 6
Human Development Elective ....................................... 3
History/Political Science Elective ................................. 3
Mathematics Electives ............................................ 6-10
Physical Science Elective ....................................... 6-10

Total Credit Hours ..................................................... 66-74

General Education Courses

Associate of applied science degrees require a general education component which generally consist of college-level (non-remedial) coursework or its equivalent, including all relevant prerequisites, in each of the following curricular areas:

COMMUNICATIONS ...................................................... 6 HOURS
Choose two courses, from English and Communications.
Choose one written and one oral communication course.
Choose from the following communications courses:
ENG132 Applied Communications* (written)
ENG133 English Composition I*+ (written)
ENG144 Public Speaking+ (oral)
ENG167 Interpersonal Communication (oral)
TEC104 Technical Writing* (written)

HUMAN DEVELOPMENT .................................................. 3 HOURS
Choose from the following human development courses:
SOC113 General Sociology
SOC140 Human Relations*
PSY113 General Psychology I+
PSY116 Applied Psychology

EMPLOYMENT............................................................. 2 HOURS
The following two courses must be completed for most AAS degrees:
PAW106 Preparation for Employment
MGT194 Management Seminar, Work Place and Life Skills

HISTORY and POLITICAL SCIENCE .............. 3 HOURS
Choose from the following history and political science courses:
HIS123 American History I
HIS124 American History II
POS113 American National Government
POS114 American State & Local Government
POS133 International Relations

**MATHEMATICS** ............................................. 6-7 HOURS
Choose two from the following mathematics courses:
- MAT113 Intermediate Algebra*
- MAT114 Applied Mathematics*
- MAT123 College Algebra*
- MAT133 Trigonometry*
- MAT160 Calculus for Business/Soc. Sciences*
- MAT165 Analytic Geometry and Calculus I*
- MAT215 Analytic Geometry and Calculus II*
- TEC190 Technical Math I*
- TEC191 Technical Math II*

**PHYSICAL SCIENCE** ........................................ 3-4 HOURS
Choose from the following science courses:
- PHS105 Applied Science
- PHS110 Introduction to Physics
- PHS125 Introductory Chemistry*
- PHS142 College Physics*
- PHS135 General Chemistry I*
- PHS223 General Physics I*
- PHS248 Earth Science I
- TEC107 Unified Technical Concepts I*
- TEC108 Unified Technical Concepts II*

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