## FIRST YEAR - FALL SEMESTER

<table>
<thead>
<tr>
<th>Dept.</th>
<th>No.</th>
<th>Title</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ORI</td>
<td>100</td>
<td>College 101</td>
<td>1</td>
</tr>
<tr>
<td>CMG</td>
<td>110</td>
<td>Structural Framing I</td>
<td>4</td>
</tr>
<tr>
<td>ELT</td>
<td>102</td>
<td>Basic Electricity and Wiring</td>
<td>4</td>
</tr>
<tr>
<td>HAC</td>
<td>121</td>
<td>Heating I</td>
<td>4</td>
</tr>
<tr>
<td>DRT</td>
<td>185</td>
<td>Computer Graphics I</td>
<td>2</td>
</tr>
<tr>
<td>WEL</td>
<td>121</td>
<td>SMAW (STICK) Plate Welding I</td>
<td>3</td>
</tr>
</tbody>
</table>

### ORI 100 College 101 1 ELT 102 IDM 210 ELT 150 IDM 120

1 Requires a grade of "C" or higher.

### FIRST YEAR - SPRING SEMESTER

<table>
<thead>
<tr>
<th>Dept.</th>
<th>No.</th>
<th>Title</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM</td>
<td>115</td>
<td>Speech OR COM 116 Interpersonal Communication</td>
<td>3</td>
</tr>
<tr>
<td>ELT</td>
<td>150</td>
<td>Applied Solid State Electronics</td>
<td>3</td>
</tr>
<tr>
<td>HAC</td>
<td>131</td>
<td>Refrigeration and Air Conditioning I</td>
<td>4</td>
</tr>
<tr>
<td>IDM</td>
<td>120</td>
<td>Safety and Environmental Management</td>
<td>2</td>
</tr>
<tr>
<td>IAI</td>
<td></td>
<td>Social and Behavioral Science Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

The minimum general education component for the Associate in Applied Science degree requires satisfactory completion of at least 15 semester credits of coursework distributed over the disciplines of Communications, Mathematics, Arts and Humanities, Physical and Life Sciences, and Social and Behavioral Sciences. The curriculum guide for each Associate in Applied Science degree program will spell out the course requirements or options available for satisfying the general education component. With appropriate justification and in consultation with your academic advisor, a request to substitute a course for one recommended in this guide may be granted with the appropriate approvals from the Department Chair, Dean for Instruction and Vice-President for Instruction. However, no substitutions are allowed in Groups I-III (General Education Component; GECC) of the curriculum guide (see the Associate in Applied Science general degree requirements worksheet in the John A. Logan College Catalog).

### SECOND YEAR - FALL SEMESTER

<table>
<thead>
<tr>
<th>Dept.</th>
<th>No.</th>
<th>Title</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMG</td>
<td>107</td>
<td>Construction Document Interpretation</td>
<td>3</td>
</tr>
<tr>
<td>IDM</td>
<td>210</td>
<td>Hydraulics &amp; Pneumatics</td>
<td>3</td>
</tr>
<tr>
<td>MAC</td>
<td>200</td>
<td>Machine Tool Lab</td>
<td>4</td>
</tr>
<tr>
<td>MFT</td>
<td>103</td>
<td>Industrial Robots &amp; PLCs</td>
<td>3</td>
</tr>
<tr>
<td>WEL</td>
<td>122</td>
<td>GMAW (MIG) Plate Welding</td>
<td>3</td>
</tr>
</tbody>
</table>

### SECOND YEAR - SPRING SEMESTER

<table>
<thead>
<tr>
<th>Dept.</th>
<th>No.</th>
<th>Title</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT</td>
<td>113</td>
<td>OR MAT 112 Introduction to Contemporary Mathematics or MAT 100 Mathematics for Applied Technologies or MAT 119 or MAT 120 Elementary Statistics</td>
<td>3</td>
</tr>
<tr>
<td>ELT</td>
<td>224</td>
<td>Power Distribution and Motors</td>
<td>3</td>
</tr>
<tr>
<td>ENG</td>
<td>101</td>
<td>English Composition I OR ENG 113 Professional Technical Writing¹</td>
<td>3</td>
</tr>
<tr>
<td>HAC</td>
<td>107</td>
<td>Electrical Controls and Circuity</td>
<td>3</td>
</tr>
<tr>
<td>MFT</td>
<td>201</td>
<td>PLC Manufacturing Systems</td>
<td>3</td>
</tr>
<tr>
<td>IAI</td>
<td></td>
<td>Physical/Life Interpersonal Communication</td>
<td>3-5</td>
</tr>
<tr>
<td>Elective</td>
<td></td>
<td></td>
<td>18-20</td>
</tr>
</tbody>
</table>

¹ Requires a grade of "C" or higher.

### SECOND YEAR - SUMMER SEMESTER - OPTIONAL

<table>
<thead>
<tr>
<th>Dept.</th>
<th>No.</th>
<th>Title</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>INT</td>
<td>101</td>
<td>Internship² OR PSY 110 College Success and Career Planning²</td>
<td>1-3</td>
</tr>
</tbody>
</table>

² Although this class is recommended, it is not required for graduation from this program and therefore is ineligible for Title IV financial aid funding.

### NOTES AND INFORMATION

The minimum general education component for the Associate in Applied Science degree requires satisfactory completion of at least

John A. Logan College reserves the right to modify this curriculum guide as needed. Please verify with your academic advisor the accuracy and time lines of this document.

---

John A. Logan College ● 700 Logan College Drive Carterville, Illinois 62918 ● 618-985-2828 ● www.jalc.edu