<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Term</th>
<th>Prerequisite(s)</th>
<th>Corequisite(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>WLDG 117</td>
<td>Blueprint Rd &amp; Weld Symbols.</td>
<td>3</td>
<td>Fall</td>
<td>RD 101 and WRIT 104 or appropriate placement score.</td>
<td>WLDG 124, WLDG 117, WLDG 125, WLDG 126, or consent of instructor.</td>
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<tr>
<td>WLDG 124</td>
<td>Welding Theory Tech &amp; Safety.</td>
<td>3</td>
<td>Fall</td>
<td>RD 101 and WRIT 104 or appropriate placement score.</td>
<td>WLDG 156.</td>
</tr>
<tr>
<td>WLDG 125</td>
<td>Cut/Shielded Mtl Arc Weld Lab.</td>
<td>5</td>
<td>Fall</td>
<td>Radiation safety, Safety.</td>
<td>WLDG 126, WLDG 125, WLDG 126, or consent of instructor.</td>
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<tr>
<td>WLDG 126</td>
<td>Shielded Metal Arc Welding Lab.</td>
<td>4</td>
<td>Fall</td>
<td>Radiation safety, Safety.</td>
<td>WLDG 126, WLDG 125, WLDG 126, or consent of instructor.</td>
</tr>
<tr>
<td>WLDG 133</td>
<td>Metal Fabrication Basics.</td>
<td>3</td>
<td>Fall</td>
<td>RD 101 and WRIT 104 or appropriate placement score.</td>
<td>WLDG 154, WLDG 124, WLDG 117, WLDG 125, M 111, instructor consent.</td>
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<td>WLDG 153</td>
<td>Metal Fabrication Basics Lab.</td>
<td>3</td>
<td>Spring</td>
<td>RD 101 and WRIT 104 or appropriate placement score.</td>
<td>WLDG 205.</td>
</tr>
<tr>
<td>WLDG 154</td>
<td>Metal Fabrication Basics.</td>
<td>3</td>
<td>Spring</td>
<td>RD 101 and WRIT 104 or appropriate placement score.</td>
<td>WLDG 205.</td>
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<tr>
<td>WLDG 155</td>
<td>Shielded Metal Arc Welding Lab.</td>
<td>5</td>
<td>Fall</td>
<td>Radiation safety, Safety.</td>
<td>WLDG 126, WLDG 125, WLDG 126, or consent of instructor.</td>
</tr>
<tr>
<td>WLDG 212</td>
<td>Pipe Welding &amp; Layout.</td>
<td>3</td>
<td>Fall</td>
<td>Completion of first year of program or consent of instructor.</td>
<td>WLDG 213.</td>
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<tr>
<td>WLDG 213</td>
<td>Pipe Welding I Lab.</td>
<td>5</td>
<td>Fall</td>
<td>Completion of first year of program or consent of instructor.</td>
<td>WLDG 212.</td>
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<tr>
<td>WLDG 205</td>
<td>Applied Metallurgy.</td>
<td>2</td>
<td>Fall</td>
<td>Completion of first year of program or consent of instructor.</td>
<td>WLDG 205.</td>
</tr>
<tr>
<td>WLDG 156</td>
<td>Semi-Automatic Welding.</td>
<td>2</td>
<td>Spring</td>
<td>Completion of first year of program or consent of instructor.</td>
<td>WLDG 156.</td>
</tr>
<tr>
<td>WLDG 157</td>
<td>Semi-Automatic &amp; SAW Lab.</td>
<td>5</td>
<td>Spring</td>
<td>Completion of first year of program or consent of instructor.</td>
<td>WLDG 156.</td>
</tr>
</tbody>
</table>

Department: Engineering & Industrial - COT
WLDG 215 Gas Tungsten Arc Welding.  
5 Credits
Term Typically Offered: Fall
Prerequisite(s): Completion of first year of program or consent of instructor.
Provides an intense course in all aspects of manual gas tungsten arc welding (GTAW). Course covers welding techniques and applications, equipment setup, and procedures for ferrous and non-ferrous metals. Quality and safety will be stressed.
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WLDG 250 Metals Production.  
2 Credits
Term Typically Offered: Spring
Prerequisite(s): WLDG 215.
Complete a project from conceptualization to final product that includes creating blueprints, developing bill of materials, and generating cost estimates. The students fabricate the project to print dimensions and tolerances. Students use CAD and other software, math skills, various welding positions, fabrication, and assembly techniques for product completion.
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WLDG 251 Specialty Weld Processes.  
5 Credits
Term Typically Offered: Spring
Prerequisite(s): Completion of first year of program, WLDG 213, WLDG 215, and WLDG 205 or instructor's consent.
Provides welding students with the practices and difficulties welding high carbon and low alloy steels, cast iron, stainless steel, and aluminum with SMAW, GTAW, GMAW, and FCAW. Welding safety will be a component of this course.
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WLDG 280 Weld Testing Certification.  
2 Credits
Term Typically Offered: Spring
Prerequisite(s): Completion of first year of program or consent of instructor.
Prepares the student for weld testing and certification. Covers destructive and non-destructive testing for weld inspection. Students learn the weld certification process and welding codes governing welding.
Lecture Hours 2
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WLDG 281 Weld Testing Certification Lab.  
3 Credits
Term Typically Offered: Spring
Prerequisite(s): Completion of first year of program or consent of instructor.
Corequisite(s): WLDG 280.
Provides students with the opportunity to prepare and practice for plate and pipe tests according to AWS D1.1, API 1104, and ASME Section IX codes and standards.
Lab Hours 3
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WLDG 294 Seminar/Workshop.  
1-3 Credits
Provides students an opportunity to investigate intensively topics pertinent to the field of metal fabrication.
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WLDG 298 Internship/Cooperative Educ.  
1-9 Credits
(45 hours/credit) Provides university credit for a sophomore work experience in the area of Welding and Metal Fabrication Technology, supervised by faculty. Learning agreement must be completed prior to registration (restricted).
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