



## Pamlico Community College Program Curriculum Map

<b>Program Name:</b> Welding Technology	
<b>Program Coordinator Name:</b> Joseph Flynn	<b>Date:</b> 02/24/26
<b>Program Student Learning Outcomes (PSLOs):</b> <ol style="list-style-type: none"><li>1. Demonstrate a sound understanding of the science, technology, and applications essential for successful employment in the welding and metal industry.</li><li>2. Perform consumable and non-consumable electrode welding and cutting processes which include the following; SMAW (Stick), GMAW (MIG), FCAW, GTAW (TIG), OFW (Oxyacetylene welding), OFC (Oxyacetylene cutting), PAC (plasma arc cutting), Air Carbon Arc Gouging, and SAW (Submerged Arc Welding).</li><li>3. Demonstrate competency in the basic understanding and practical application of the principles of: fabrication processes theory and safety, cutting metal with shear, chop saw and band saw, drilling and punching holes, bending metal with box/pan break, fabricate a metal project.</li></ol>	

**Required Courses:**

WLD-110 Cutting Processes

WLD-115 SMAW (Stick) Plate

WLD-121 GMAW (MIG) Plate

WLD-131 GTAW (TIG) Plate

WLD-141 Symbols & Specifications

WLD-116 SMAW (Stick) Plate/Pipe

WLD-122 GMAW (MIG) FCAW/Plate/Pipe

WLD-132 GTAW (TIG) Plate/Pipe

WLD-151 Fabrication I

WLD-221 GMAW (MIG) Pipe

WLD-231 GTAW (TIG) Pipe

WLD-251 Fabrication II

WLD-261 Certification Practices

ISC-121 Enviro Health & Safety

DFT-151 CAD I

DFT-152 CAD II

DFT-153 CAD III

# Program Curriculum Map with Performance Targets

## Performance Goal

1	2	3
Emerging (Outcome Introduced)	Developing (Outcome Reinforced)	Proficient (Outcome Emphasized)

Type	Course	Learning Outcome 1	Learning Outcome 2	Learning Outcome 3
Required	WLD-110	3	1	2
Required	WLD-115	2	1	2
Required	WLD-121	2	1	2
Required	WLD-131	2	1	2
Required	WLD-141	1	3	1
Required	WLD-116	2	2	2
Required	WLD-122	2	2	2
Required	WLD-132	2	2	2
Required	WLD-151	2	3	1
Required	WLD-221	2	2	2
Required	WLD-231	2	2	2
Required	WLD-251	2	3	1
Required	WLD-261	3	3	3
Required	ISC-121	1	1	3
Elective	DFT-151	1	2	3
Elective	DFT-152	1	3	3
Elective	DFT-153	1	3	3