COASTAL ALABAMA COMMUNITY COLLEGE

INDUSTRIAL ENGINEERING TECHNOLOGY

WELDING TECHNOLOGY
Associate in Applied Science Degree

Program Locations: The Academy at Fairhope Airport, Atmore, Monroeville, and Thomasville Campuses

Length: Four Semesters

The Associate in Applied Science degree in Welding Technology is designed to prepare individuals for employment in the field of welding. The program is competency based that includes both theory and hands on practical application based instruction. Instruction is provided in various processes and techniques of welding and cutting different types of materials.

This is a career program designed for students to go directly into the labor market upon completion. Although some of the courses in this program will transfer to four-year institutions, this program is not designed to be a transfer program of study; therefore, it is not subject to the terms and conditions of STARS.

AREA I: Written Composition	**3 Total Hours**
ENG 101 – English Composition I	3
AREA II: Humanities and Fine Arts	**6 Total Hours**
Choose one of the following: SPH 106 – Fundamentals of Oral Communication SPH 107 – Fundamentals of Public Speaking	3
Humanities and Fine Arts Elective: Choose one of the following ART 100 – Art Appreciation ART 203 – Art History I ART 204 – Art History II HUM 101 – Introduction to Humanities I HUM 102 – Introduction to Humanities II MUS 101 – Music Appreciation PHL 106 – Introduction to Philosophy PHL 206 – Ethics and Society REL 100 – History of World Religions REL 151 – Survey of the Old Testament REL 152 – Survey of the New Testament THR 120 – Theater Appreciation THR 126 – Introduction to Theater	3
AREA III: Natural Sciences and Mathematics	**9 – 10 Total Hours**
CIS 146 – Microcomputer Applications	3
MTH 116 – Mathematical Applications	3
Computer Science, Math, or Science Elective: Choose **one** of the following BIO 101 – Introduction to Biology I BIO 102 – Introduction to Biology II BIO 103 – Principles of Biology I CHM 104 – Introduction to Inorganic Chemistry CHM 111 – College Chemistry I CHM 112 – College Chemistry II CIS 130 – Intro to Information Systems CIS 147 – Advanced Microcomputer Applications MTH 100 – Intermediate College Algebra MTH 110 – Finite Mathematics MTH 112 – Precalculus Algebra MTH 113 – Precalculus Trigonometry MTH 115 – Precalculus Algebra and Trigonometry MTH 116 – Mathematical Applications PHS 111 – Physical Science I PHS 112 – Physical Science II PHY 120 – Introduction to Physics PHY 201 – General Physics I with Trigonometry PHY 202 – General Physics II with Trigonometry	3 – 4

AREA IV: History, Social, and Behavioral Sciences		3 Total Hours
Choose **one** of the following: ECO 231 – Principles of Macroeconomics ECO 232 – Principles of Microeconomics GEO 100 – World Regional Geography HIS 101 – Western Civilization I HIS 102 – Western Civilization II HIS 121 – World History I HIS 122 – World History II HIS 201 – United States History I	HIS 202 – United States History II POL 200 – Introduction to Political Science POL 211 – American National Government PSY 200 – General Psychology PSY 210 – Human Growth and Development SOC 200 – Introduction to Sociology SOC 210 – Social Problems	3
AREA V: Pre-Professional, Major, and Elective Courses		**46 Total Hours**
IET 114 – Basic Electricity or WDT 110 – Industrial Blueprint Reading		3
INT 117 – Principles of Industrial Mechanics or WDT 125 – Shielded Metal Arc Welding Groove Lab		3
WDT 108 – Shielded Metal Arc Fillet/OFC		3
WDT 122 – Shielded Metal Arc Fillet/OFC Lab		3
WDT 109 – Shielded Metal Arc Fillet/PAC/CAC		3
WDT 123 – Shielded Metal Arc Fillet/PAC/CAC Lab		3
WDT 120 – Shielded Metal Arc Welding Groove		3
WDT 119 – Gas Metal Arc/Flux Cored Arc Welding		3
WDT 124 – Gas Metal Arc/Flux Cored Arc Welding Lab		3
WDT 115 – GTAW Carbon Pipe		3
WDT 217 – SMAW Carbon Pipe		3
WDT 116 – GTAW Stainless Pipe		3
WKO 110 – NCCER Core		3
ORI 101 – Orientation to College **or** WKO 107 – Workplace Skills Preparation		1
Welding Electives: Choose **two** from the following: WDT 155 – GTAW Carbon Pipe Lab WDT 156 – GTAW Stainless Pipe Lab WDT 180 – Special Topics	WDT 257 – SMAW Carbon Pipe Lab WDT 228 – Gas Tungsten Arc Welding WDT 281 – Special Topics in Welding	6
Total Hours		**67 – 68 SH**