COASTAL ALABAMA COMMUNITY COLLEGE

ENGINEERING GRAPHICS AND DESIGN TECHNOLOGY

Associate in Applied Science Degree – AAS DDT

Program Locations: Bay Minette Campus

Length: Four Semesters

The Engineering Graphics and Design Technology program provides the technical training for students to interpret and produce engineering and architectural graphics and data. Visualization skills are developed to design and evaluate technical content. With the use of Computer—Aided Design 3D Solid modeling software the student will gain the skills to design and convert complex virtual CAD models into physical products. The program prepares the student for a career in engineering, manufacturing, architecture, and construction where intelligent graphics, 3D Printing, Rapid Prototyping, Additive Manufacturing Technologies, and Direct Digital Manufacturing are required throughout the design process.

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 Alabama Transfers state transfer and articulation reporting system.

AREA I: Written Composition	**3 Total Hours**
ENG 101 – English Composition I	3
AREA II: Humanities and Fine Arts	**3 Total Hours**
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	**6 Total Hours**
CIS 146 – Microcomputer Applications	3
MTH 116 – Mathematical Applications or MTH 100 – Intermediate College Algebra	3
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	46-47 Total Hours
BUS 215 – Business Communication or OAD 133 Business Communication	3
DDT 104 – Basic Computer Aided Drafting and Design	3
DDT 111 – Fundamentals of Drafting and Design Technology	3
DDT 117 – Manufacturing Processes	3
DDT 124 – Basic Technical Drawing	3
DDT 127 – Intermediate CAD	3
DDT 131 – Machine Drafting Basics	3
DDT 132 – Architectural Drafting	3
DDT 144 – Basic 3-D Modeling	3
DDT 214 – Pipe Drafting	3
DDT 225 – Structural Steel Drafting	3
DDT 236 – Design Project	3
ORI 101 – Orientation to College **or** WKO 107 – Workplace Skills Preparation	1
Engineering Graphics and Design AAS Electives: Choose from the following: ADM 112 Orientation to Additive Manufacturing (1) ADM 161 Specialized Software Techniques (3) ADM 162 Additive Manufacturing Processes-Polymers (3) DDT 193 Drafting Internship (3) DDT 213 Civil Drafting, Plat Maps (3) DDT 215 Geometric Dimensioning & Tolerancing (3) DDT 227 Strength of Materials (4) DDT 237 Current Topics in CAD (3) DDT 239 Independent Studies (3) DDT 244 Advanced 3D Modeling (3)	9-10
Total Hours	**61-62 SH**