

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		3
ART 100 – Art Appreciation	PHL 206 – Ethics and Society	
ART 203 – Art History I	REL 100 – History of World Religions	
ART 204 – Art History II	REL 151 – Survey of the Old Testament	
HUM 101 – Introduction to Humanities I	REL 152 – Survey of the New Testament	
HUM 102 – Introduction to Humanities II	THR 120 – Theater Appreciation	
MUS 101 – Music Appreciation	THR 126 – Introduction to Theater	
PHL 106 – Introduction to Philosophy		
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:		3
ECO 231 – Principles of Macroeconomics	HIS 202 – United States History II	
ECO 232 – Principles of Microeconomics	POL 200 – Introduction to Political Science	
GEO 100 – World Regional Geography	POL 211 – American National Government	
HIS 101 – Western Civilization I	PSY 200 – General Psychology	
HIS 102 – Western Civilization II	PSY 210 – Human Growth and Development	
HIS 121 – World History I	SOC 200 – Introduction to Sociology	
HIS 122 – World History II	SOC 210 – Social Problems	
HIS 201 – United States History I	SPH 116 – Introduction to Interpersonal Communications	

AREA V: Pre-Professional, Major, and Elective Courses		46 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
DDT 260 – Portfolio History		3
ORI 101 – Orientation to College or WKO 107 – Workplace Skills Preparation		1
Engineering Graphics and Design AAS Electives: Choose two courses from the following. DDT 193 Drafting Internship (3) DDT 213 Civil Drafting, Plat Maps (3) DDT 215 Geometric Dimensioning and Tolerancing (3) DDT 232 CAD Customization (3) DDT 237 Current Topics in CAD (3) DDT 239 Independent Studies (3) DDT 244 Advanced 3D Modeling (3)		6
Total Hours		61-62 SH