

# COMPUTER ASSISTED DESIGN AND DRAFTING TECHNOLOGY DEGREE – 20603

## ASSOCIATE OF APPLIED SCIENCE

Course	Requirement Field	Credits	Notes
<b>Fall - 1st Semester</b>			
DRF 154 Introduction to AutoCAD	Curriculum Required	2 to 3	Fall/Spring offered
MAT 100 Applied Mathematics or higher	General Education - Math	3 to 5	
Drafting Curriculum Related	Curriculum Related	3	Must be from approved list
AMT 102 Materials for Industry	Curriculum Required	3	Fall only
General Education	General Education	3	
<b>Total Hours</b>		<b>14-17</b>	

\*\* NOTE: Any developmental courses must be taken in addition to the above during this semester as prerequisites for later courses. General Education Courses must be chosen from the approved list.

Course	Requirement Field	Credits	Notes
<b>Spring - 2nd Semester</b>			
DRF 170 Residential Architecture	Curriculum Required	3	Spring only
DRF 150 Dimensioning and Tolerancing	Curriculum Required	2	Spring only
ENG 100 Writing Fundamentals <b>OR</b>	General Education - English	3	Fall/Spring offered
ENG 101 Written Communications I			
DRF 271 Advanced AutoCAD	Curriculum Required	2 to 3	Spring only
DRF 220 Parametric Solid Modeling	Curriculum Required	3	Spring only
General Ed. Requirement	General Education	3	
<b>Total Hours</b>		<b>15-16</b>	

Course	Requirement Field	Credits	Notes
<b>Fall - 3rd Semester</b>			
DRF 160 Descriptive Geometry	Curriculum Required	3	Fall only
DRF 230 Civil Drafting	Curriculum Required	3	Fall only
AMT 104 Machining and Fabrication <b>OR</b>	Curriculum Required	4-6	AMT 104 Spring only
AMT 101 Fundamentals of Machining			AMT 101 Fall only
<b>AND</b>			WLD 101 Fall and Spring
EGR 250 Plane Surveying			EGR 250 Spring only
<b>OR</b> WLD 101 Welding			
Elective	Elective	4	Students may choose from the curriculum related courses to fulfill this elective requirement or GE courses if transferring to a University.
General Education	General Education	3	
<b>Total Hours</b>		<b>17-19</b>	

Course	Requirement Field	Credits	Notes
<b>Spring - 4th Semester</b>			
DRF 232 Structural Drafting	Curriculum Required	2 to 3	Spring only
BUA 259 Business Communications	Curriculum Required	3	Fall/Spring offered
TEC 260 Technical Report Writing <b>OR</b>	General Education - English	3	Fall/Spring offered
ENG 102 Written Communications II			
DRF 290 Drafting Capstone Project	Curriculum Required	2	Spring only
Drafting Curriculum Related	Curriculum Related	4	Must be from approved list
<b>Total Hours</b>		<b>14</b>	

<b>Total Hours</b>	60
Total Curriculum Required	31
Total Curriculum Related	7
Total General Education	18
Total Electives	4

**Notes:** <sup>1</sup>The foregoing is a recommended, or suggested, sequence of courses. Of course, if a student enters the program in the spring, or transfers credit in, the above would have to be modified.

**All courses must be completed with a grade of "C" or better--Be sure to check the catalog for other changes and requirements.**

### Curriculum Requirements

AMT 102 Materials for Industry	3 credits
BUA 259 Business Communications	3 credits
DRF 150 Dimensioning and Tolerancing	2 credits
DRF 154 Introduction to AutoCAD	2 to 3 credits
DRF 160 Descriptive Geometry	3 credits

DRF 170 Residential Architecture	2 to 3 credits
DRF 220 Parametric Solid Modeling	3 credits
DRF 230 Civil Drafting	3 credits
DRF 232 Structural Drafting	2 to 3 credits
DRF 271 Advanced AutoCAD	2 to 3 credits
DRF 290 Drafting Capstone Project	2 credits

Select one of the following options:

Option 1:

AMT 101 Fundamental of Machining	2 credits
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Option 2:

EGR 250 Plane Surveying [OR](#)

WLD 101 Welding	3 credits
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In addition to the required courses above, select from the following Curriculum Related courses to complete a total of 38 curriculum credits

**Curriculum Related**

AMT 104 Machining and Fabrication	3 credits
AMT 110 Introduction to Fab Lab Technology	2 credits
AMT 111 Fab Lab Workshop I	1 to 3 credits
AMT 211 Fab Lab Workshop II	1 to 3 credits
AMT 140 Intro to CNC Programming	2 credits
AMT 220 Advanced Manufacturing Methods	4 credits
AMT 240 Advanced Manufacturing Production Processes	3 credits
ART 101 Fundamentals of Design	3 credits
AUT 105 Automotive Electrical Fundamentals	2 credits
CMP 113 Operating Systems I	3 credits
CMP 121 Visual Basic Programming I	3 credits
CMP 151 Computer Systems I	3 credits
COE 111 Cooperative Education I (Occupational)	1 to 4 credits
DRF 235 Geographic Information Systems I	2 credits
DRF 236 Geographic Information Systems II	3 credits
DRF 262 Commercial Architecture	2 to 3 credits
DRF 299 Independent Study	1 to 3 credits
EGR 102 Introduction to Engineering	4 credits
EGR 214 Engineering Mechanics I - Statics	3 credits
EGR 215 Engineering Mechanics II - Dynamics	3 credits
EGR 233 Mechanics of Materials	3 credits
EGR 250 Plane Surveying	3 credits
IAR 101 Woodworking	2 to 3 credits
IAR 120 Machine Woodworking	2 to 3 credits
TEC 133 Safety Practices for Industry	1 credit
THC 231 Stagecraft	3 credits
THC 236 Introduction to Scene Design	3 credits
WLD 108 Welding and Metal Fabrication	3 credits

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Total of 38 Curriculum Requirements

**English Requirement**

ENG 100 Writing Fundamentals OR	
ENG 101 Written Communications I	3 credits
TEC 260 Technical Report Writing OR	
ENG 102 Written Communications II	3 credits
Total English Requirements	6 credits

**Mathematics Options**

MAT 100 Applied Mathematics or higher	3-5 credits
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