

Engineering Design Technology, A.A.S.

Requirements

The Associate in Applied Science Degree is a "job ready" degree and applies the technical and functional elements of several Drafting and Design fields. Students will take courses in the fundamentals of drafting and design, industry standard two-dimensional and three-dimensional software, Architectural Design, Civil Design and Surveying, Electrical Design, Mechanical Design, and Structural Steel Detailing and Design. Students will take other supporting classes and advanced courses in a minimum of two specialty areas of their choosing.

Total Program Credits: 67

General Education Requirements:		19 Credits
ENGLISH		3
	ENGL 1010	Introduction to Writing (3.0)
or	MKTG 2200	Written Business Communication (3.0)
MATHEMATICS		
	EGDT 1600	Technical Math--Algebra
or	MATH 1050	College Algebra (4.0)
or	MATH 1055	College Algebra with Preliminaries (5.0)
	EGDT 1610	Technical Math--Geometry/Trig
or	MATH 1060	Trigonometry (3.0)
HUMANITIES/FINE ARTS/FOREIGN LANGUAGE		3
	PHIL 2050	Ethics and Values (3.0)
	Any approved Humanities, Fine Arts, or Foreign Language Distribution Course	
SOCIAL AND BEHAVIORAL SCIENCE		3
	MGMT 3000	Organizational Behavior (3.0)
or	Any approved Behavioral Science, Social, or Political Science	
BIOLOGY OR PHYSICAL SCIENCE		
	PHYS 1010	Elementary Physics
PHYSICAL EDUCATION/HEALTH/SAFETY OR ENVIRONMENT		1
	Any approved Physical Education, Health, Safety or Environment Course	
Discipline Core Requirements:		39 Credits
	EGDT 1010	Electrical-Electronic Drafting
	EGDT 1020	3D Architectural Modeling
	EGDT 1040	Computer Aided Drafting--AutoCAD
	EGDT 1070	3 Dimensional Modeling--Inventor
or	EGDT 1071	3 Dimensional Modeling--Solidworks (3.0)
	EGDT 1100	Architectural Drafting
	EGDT 1200	Mechanical Drafting
	EGDT 1300	Structural Drafting
	EGDT 1400	Surveying Applications and Field Techniques I
	EGDT 2020	Descriptive Geometry
	EGDT 2040	Piping Drafting
	EGDT 2050	Plate Layout
	EGDT 2600	Statics
	EGDT 2610	Strength of Materials
	EGDT 2850	Cooperative Correlated Instruction/Orientation

EGDT 2860	Cooperative Correlated Instruction/SkillsUSA	0.5
EGDT 2870	Portfolio and Career Preparation	1
Elective Requirements:		9 Credits
Choose a minimum of three courses from the following list for a minimum of 9 credits:		9
EGDT 1050	Introduction to 3D Printing (2.0)	
EGDT 1060	MicroStation (2.0)	
EGDT 1080	AutoLisp (2.0)	
EGDT 1090	Introduction to Architectural Drafting and Design (2.0)	
EGDT 2010	Advanced Electrical--CAD (2.0)	
EGDT 2100	Advanced Architectural (3.0)	
EGDT 2200	Advanced Mechanical (3.0)	
EGDT 2300	Advanced Structural--CAD (3.0)	
EGDT 2310	Structural Steel Modeling (3.0)	
EGDT 2400	Surveying Applications (3.0)	
EGDT 2500	3 Dimensional Modeling--Civil 3D (3.0)	
EGDT 2710	Special Problems--Mechanical (2.0)	
EGDT 2720	Special Problems--Surveying (2.0)	
EGDT 2730	Special Problems--Civil Drafting (2.0)	
EGDT 2740	Special Problems--Architectural (2.0)	
EGDT 2750	Special Problems--Architectural Rendering (2.0)	
EGDT 2760	Special Problems--Structural (2.0)	
EGDT 2780	Special Problems--Electrical (2.0)	
EGDT 281R	Cooperative Work Experience (1.0)	
EGDT 3500	Advanced Civil Drafting and Design (3.0)	

Graduation Requirements:

1. Completion of a minimum of 67 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours-- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements, including a portfolio and exit interview.

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Engineering Design Technology, A.A.S. Graduation Plan

This graduation plan is a sample plan and is intended to be a guide. Your specific plan may differ based on your Math and English placement and/or transfer credits applied. You are encouraged to meet with an advisor and set up an individualized graduation plan in [Wolverine Track](#).

Milestone courses (pre-requisites for a course in one of the subsequent semesters) are marked in red and italicized.

Semester 1	Course Title	Credit Hours
<i>EGDT 1040</i>	Computer Aided Drafting - AutoCAD	3
<i>EGDT 1020</i>	3D Architectural Modeling	3
EGDT 1400	Surveying Applications and Field Techniques I	3
EGDT 2850	Cooperative Correlated Instruction/Orientation	0.5
<i>EGDT 1600</i> or <i>MATH 1050</i> or <i>MATH 1055</i>	Technical Math - Algebra College Algebra (4.0) or College Algebra with Preliminaries	3
<i>EGDT 1070</i> or <i>EGDT 1071</i>	3 Dimensional Modeling - Inventor 3 Dimensional Modeling - Solidworks	3
<i>ENGL 1010</i> or <i>MKTG 2200</i>	Introduction to Writing Written Business Communication (3.0)	3
	Semester total:	18.5
Semester 2	Course Title	Credit Hours
EGDT 1010	Electrical-Electronic Drafting	3
EGDT 1100	Architectural Drafting	3
MGMT 3000 or Soc/Beh Sci	Organizational Behavior Any approved Behavioral Science, Social, or Political Science	3
EGDT 2860	Cooperative Correlated Instruction/SkillsUSA	0.5
<i>EGDT 1610</i> or <i>MATH 1060</i>	Technical Math - Geometry/Trig Trigonometry (3.0)	3
PHIL 2050	Ethics and Values	3
	Semester total:	15.5
Semester 3	Course Title	Credit Hours
EGDT 1200*	Mechanical Drafting	3
EGDT 1300*	Structural Drafting	3
<i>EGDT 2020*</i>	Descriptive Geometry	3
EGDT 2040	Piping Drafting	2
<i>EGDT 2600</i>	Statics	3
EGDT Elective	EGDT Elective	3
	Semester total:	17
Notes: EGDT Electives: Fall, Spring: EGDT 1050 Introduction to 3D Printing (2.0)		
Fall, Spring, Summer: EGDT 281R Cooperative Work Experience (1.0) Fall Only: EGDT 2100 Advanced Architectural (3.0), EGDT 2400 Surveying Applications (3.0)		

Spring Only: EGDT 1060 MicroStation (2.0), EGDT 2200 Advanced Mechanical (3.0), EGDT 2300 Advanced Structural—CAD (3.0), EGDT 2310 Structural Steel Modeling (3.0), EGDT 2500 3 Dimensional Modeling—Civil 3D (3.0), EGDT 3500 Advanced Civil Drafting and Design (3.0)
On Sufficient Demand: EGDT 1080 AutoLisp (2.0), EGDT 1090 Introduction to Architectural Drafting and Design (2.0) EGDT 2010 Advanced Electrical—CAD (2.0), EGDT 2710 Special Problems—Mechanical (2.0), EGDT 2720 Special Problems—Surveying (2.0), EGDT 2730 Special Problems—Civil Drafting (2.0), EGDT 2740 Special Problems—Architectural (2.0), EGDT 2750 Special Problems—Architectural Rendering (2.0), EGDT 2760 Special Problems—Structural (2.0), EGDT 2780 Special Problems—Electrical (2.0)

*Pre-requisites are required to be taken. Please see the advisor.

Semester 4	Course Title	Credit Hours
EGDT 2050	Plate Layout	2
EGDT 2610	Strength of Materials	3
EGDT 2870	Portfolio and Career Preparation	1
EGDT Elective	EGDT Elective	3
EGDT Elective	EGDT Elective	3
PHYS 1010	Elementary Physics	3
Hlth/PES/Safety/ Env	Any approved Physical Education, Health, Safety or Environment Course	1
	Semester total:	16

Notes: EGDT Electives:

Fall, Spring: EGDT 1050 Introduction to 3D Printing (2.0)

Fall, Spring, Summer: EGDT 281R Cooperative Work Experience (1.0)
Fall Only: EGDT 2100 Advanced Architectural (3.0), EGDT 2400 Surveying Applications (3.0)

Spring Only: EGDT 1060 MicroStation (2.0), EGDT 2200 Advanced Mechanical (3.0), EGDT 2300 Advanced Structural—CAD (3.0), EGDT 2310 Structural Steel Modeling (3.0), EGDT 2500 3 Dimensional Modeling—Civil 3D (3.0), EGDT 3500 Advanced Civil Drafting and Design (3.0)
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*Pre-requisites are required to be taken. Please see the advisor.

	Degree total:	67
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