

## Engineering Design Technology, A.S.

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### Requirements

The Associate in Science Degree is a transferable degree and applies the technical and functional elements of several Drafting and Design fields without taking the advanced course work required in the Associate in Applied Science Degree. Students will take fundamental courses in 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.

#### Total Program Credits: 61

General Education Requirements:		35 Credits
	<a href="#">ENGL 1010</a> Introduction to Academic Writing CC	3
or	<a href="#">ENGH 1005</a> Literacies and Composition Across Context CC (5.0)	
	<a href="#">ENGL 2010</a> Intermediate Academic Writing CC	3
Complete one of the following:		3
	<a href="#">MAT 1030</a> Quantitative Reasoning QL (3.0)	
	<a href="#">MAT 1035</a> Quantitative Reasoning with Integrated Algebra QL (6.0)	
	<a href="#">STAT 1040</a> Introduction to Statistics QL (3.0)	
	<a href="#">STAT 1045</a> Introduction to Statistics with Algebra QL (5.0)	
	<a href="#">MATH 1050</a> College Algebra QL (4.0) (MATH 1050 is a prerequisite for many classes in the program core.)	
	<a href="#">MATH 1055</a> College Algebra with Preliminaries QL (5.0)	
	<a href="#">MATH 1090</a> College Algebra for Business QL (3.0)	
Complete one of the following:		3
	<a href="#">HIST 1700</a> American Civilization AS (3.0)	
	<a href="#">HIST 1740</a> US Economic History AS (3.0)	
	<a href="#">HIST 2700</a> US History to 1877 AS (3.0)	
and	<a href="#">HIST 2710</a> US History since 1877 AS (3.0)	
	<a href="#">POLS 1000</a> American Heritage SS (3.0)	
	<a href="#">POLS 1100</a> American National Government AS (3.0)	
Complete the following:		
	<a href="#">PHIL 2050</a> Ethics and Values IH	3
	<a href="#">HLTH 1100</a> Personal Health and Wellness TE	2
or	<a href="#">EXSC 1097</a> Fitness for Life TE (2.0)	
Complete the following:		
	<a href="#">PHYS 1010</a> Elementary Physics PP	3
or	<a href="#">PHYS 2010</a> College Physics I PP	3
Complete the following distribution courses:		
	Biology (Recommend BIOL 1010 General Biology)	3
	Humanities (Recommend ENGL 2100 Technical Communication HH)	3

	Social/Behavioral Science (Recommend COMM 1050 Introduction to Speech Communication)	3
	Physical Science (Recommend GEO 1010 Introduction to Geology)	3
	Fine Arts Distribution (Recommend EGDT 1720 Architectural Rendering)	3
Discipline Core Requirements:		26 Credits
Complete a minimum of 26 credits from the following tracks:		26
Architectural Drafting and Design Track. (Students select this track if interested in a career in architectural drafting and design. Students also take these classes as part of the Bachelor of Architecture degree.)		
	<a href="#">EGDT 1020</a> 3D Architectural Modeling (3)	
	<a href="#">EGDT 1040</a> Fundamentals of Technical Engineering Drawing	
	<a href="#">EGDT 1100</a> Architectural Drafting and Design (3)	
	<a href="#">EGDT 2100</a> Architecture Materials and Methods (3)	
	<a href="#">EGDT 2600</a> Applied Structures I - Statics (3) (MATH 1050 is a prerequisite for this course)	
	<a href="#">ARC 1010</a> Classical Architecture Workshop (3)	
	<a href="#">ARC 2110</a> Architecture Studio I (4)	
	<a href="#">ARC 2210</a> Architecture Studio II (4)	
	<a href="#">ARC 2220</a> Construction Documents and Specifications (3)	
Civil Drafting and Design Track. (Students select this track if interested in a career in civil drafting and design. Students may also apply these courses to several focus areas within the Surveying and Mapping B.S. degree.)		
	<a href="#">EGDT 1020</a> 3D Architectural Modeling (3)	
	<a href="#">EGDT 1040</a> Fundamentals of Technical Engineering Drawing (3)	
	<a href="#">EGDT 1060</a> MicroStation Infrastructure Design (3)	
	<a href="#">EGDT 1300</a> Structural Drafting (3)	
	<a href="#">EGDT 1400</a> Surveying Applications and Field Techniques I (3)	
	<a href="#">EGDT 1600</a> Technical Math Algebra (3)	
and	<a href="#">EGDT 1610</a> Technical Math Geometry Trig (3) (MATH 1050 is a prerequisite for MATH 1060 Trigonometry)	
or	<a href="#">MATH 1060</a> Trigonometry QL (3)	
	<a href="#">EGDT 2040</a> Piping Drafting (2)	
	<a href="#">EGDT 2400</a> Surveying Applications and Field Techniques II (3) (MATH 1050, MATH 1060, or EGDT 1600 are prerequisites for this course)	
	<a href="#">EGDT 2500</a> 3 Dimensional Modeling--Civil 3D (3)	
Mechanical/Electrical Drafting and Design Track. (Students select this track if interested in a career in mechanical drafting and design.)		
	<a href="#">EGDT 1010</a> Electrical Electronic Drafting (3)	
	<a href="#">EGDT 1040</a> Fundamentals of Technical Engineering Drawing (3)	
	<a href="#">EGDT 1050</a> Introduction to 3D Printing PP (2)	
	<a href="#">EGDT 1070</a> 3 Dimensional Modeling--Inventor (3)	

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or	<a href="#">EGDT 1071</a>	3 Dimensional Modeling--Solidworks (3)	
	<a href="#">EGDT 1200</a>	Mechanical Drafting (3)	
	<a href="#">EGDT 2020</a>	Descriptive Geometry (3)	
	<a href="#">EGDT 2200</a>	Advanced Mechanical (3)	
	<a href="#">EGDT 2600</a>	Applied Structures I - Statics (3) (MATH 1050, or EGDT 1600 and EGDT 1610 are prerequisite for this course)	
	<a href="#">EGDT 2610</a>	Applied Structures II - Strength of Materials (3) (MATH 1050, or EGDT 1600 and EGDT 1610 are prerequisites for this course)	
Structural Drafting and Design Track. (Students select this track if interested in a career in structural drafting and design.)			
	<a href="#">EGDT 1020</a>	3D Architectural Modeling (3)	
	<a href="#">EGDT 1040</a>	Fundamentals of Technical Engineering Drawing (3)	
	<a href="#">EGDT 1100</a>	Architectural Drafting and Design (3)	
	<a href="#">EGDT 1300</a>	Structural Drafting (3)	
	<a href="#">EGDT 1600</a>	Technical Math Algebra (3)	
or	<a href="#">MATH 1060</a>	Trigonometry (3)	
	<a href="#">EGDT 2300</a>	Advanced Structural CAD (3) (MATH 1050, MATH 1060 or EGDT 1600 and EGDT 1610 are prerequisites for this course)	
	<a href="#">EGDT 2310</a>	Structural Steel Modeling (3)	
	<a href="#">EGDT 2600</a>	Applied Structures I - Statics (3) (MATH 1050, or EGDT 1600 and EGDT 1610 are prerequisites for this course)	
	<a href="#">EGDT 2610</a>	Applied Structures II - Strength of Materials (3) (MATH 1050, or EGDT 1600 and EGDT 1610 are prerequisites for this course)	
General Drafting and Design Track. (Students select this track if interested in a career in general techniques and principles.) Complete the following:			
	<a href="#">EGDT 1020</a>	3D Architectural Modeling (3)	
	<a href="#">EGDT 1040</a>	Fundamentals of Technical Engineering Drawing (3)	
	<a href="#">EGDT 1070</a>	3 Dimensional Modeling--Inventor (3)	
or	<a href="#">EGDT 1071</a>	3 Dimensional Modeling--Solidworks (3)	
	<a href="#">EGDT 1300</a>	Structural Drafting (3)	
	<a href="#">EGDT 1400</a>	Surveying Applications and Field Techniques I (3)	
Choose 11 Credits of Electives from the following: (Some courses may have additional prerequisite.)			
	<a href="#">ARC 1010</a>	Classical Architecture Workshop (3)	
	<a href="#">ARC 2110</a>	Architecture Studio I (4)	
	<a href="#">ARC 2210</a>	Architecture Studio II (4)	
	<a href="#">EGDT 1010</a>	Electrical Electronic Drafting (3)	
	<a href="#">EGDT 1050</a>	Introduction to 3D Printing PP (2)	
	<a href="#">EGDT 1060</a>	MicroStation Infrastructure Design (3)	

	<a href="#">EGDT 1100</a>	Architectural Drafting and Design (3)	
	<a href="#">EGDT 1200</a>	Mechanical Drafting (3)	
	<a href="#">EGDT 1300</a>	Structural Drafting (3)	
	<a href="#">EGDT 1600</a>	Technical Math Algebra (3)	
	<a href="#">EGDT 1610</a>	Technical Math Geometry Trig (3)	
	<a href="#">EGDT 1720</a>	Architectural Rendering FF (3)	
	<a href="#">EGDT 2020</a>	Descriptive Geometry (3)	
	<a href="#">EGDT 2040</a>	Piping Drafting (2)	
	<a href="#">EGDT 2100</a>	Architecture Materials and Methods (3)	
	<a href="#">EGDT 2200</a>	Advanced Mechanical (3)	
	<a href="#">EGDT 2300</a>	Advanced Structural--CAD (3)	
	<a href="#">EGDT 2310</a>	Structural Steel Modeling (3)	
	<a href="#">EGDT 2400</a>	Surveying Applications and Field Techniques II (3)	
	<a href="#">EGDT 2500</a>	3 Dimensional Modeling--Civil 3D (3.0)	
	<a href="#">EGDT 2610</a>	Applied Structures II - Strength of Materials (3)	
	<a href="#">EGDT 281R</a>	Internship (1)	
	<a href="#">EGDT 285R</a>	AEC Design Lecture Series (0.5)	
	<a href="#">EGDT 2860</a>	Cooperative Correlated Instruction SkillsUSA (0.5)	

### **Graduation Requirements:**

1. Completion of a minimum of 61 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.

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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](#).

Semester 1	Course Title	Credit Hours
EGDT 1070 or EGDT 1071	3 Dimensional Modeling - Inventor or 3 Dimensional Modeling - Solidworks	3
EGDT 1040	Fundamentals of Technical Engineering Drawing	3
ENGL 1010 or ENGL 1005	Introduction to Academic Writing CC or Literacies and Composition Across Contexts CC	3
MAT 1030 or MAT 1035 or STAT 1040 or STAT 1045 or MATH 1050 or MATH 1055 or MATH 1090	Quantitative Reasoning QL (3.0) or Quantitative Reasoning with Integrated Algebra QL (6.0) or Introduction to Statistics QL (3.0) or Introduction to Statistics with Algebra QL (5.0) or College Algebra QL (4.0) or College Algebra with Preliminaries QL (5.0) or College Algebra for Business QL (3.0)	3
HIST 2700 and HIST 2710 or HIST 1700 or HIST 1740 or POLS 1000 or POLS 1100	US History to 1877 AS (3.0) and US History since 1877 AS (3.0) or American Civilization AS (3.0) or US Economic History AS (3.0) or American Heritage SS (3.0) or American National Government AS (3.0)	3
	Semester total:	15
Semester 2	Course Title	Credit Hours
EGDT 1020	3D Architectural Modeling	3
EGDT 1200	Mechanical Drafting	3
EGDT 1300	Structural Drafting	3
ENGL 2010	Intermediate Academic Writing CC	3
PHIL 2050	Ethics and Values IH	3
	Semester total:	15
Semester 3	Course Title	Credit Hours
EGDT 1100	Architectural Drafting and Design	3
EGDT Elective		2
HLTH 1100 or EXSC 1097	Personal Health and Wellness TE or Fitness for Life TE (2.0)	2
Biology		3
Fine Arts		3
Physical Science		3
	Semester total:	16

Semester 4	Course Title	Credit Hours
EGDT Elective		3
EGDT 1400	Surveying Applications and Field Techniques I	3
Additional Science		3
Humanities		3
Social/Behavioral Science		3
	Semester total:	15
	Degree total:	61