

# Construction Technologies

## Construction Technologies

The Construction Technologies department is in the [Scott M. Smith College of Engineering](#). To find the most up-to-date information, including Program Learning Outcomes for degree programs offered by the Construction Technologies department, visit their website.

[Construction Technologies department](#)

### DEPARTMENT CHAIR

WARCUP, Robert Professor

### FACULTY

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COX, James Associate Professor

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SCHELLENBERG, Justin H. Assistant Professor

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## Degrees & Programs

### Cabinetry and Architectural Woodwork, A.A.S.

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#### Requirements

Students may receive a One-Year Certificate, a Diploma, an Associate in Applied Science degree, an Associate in Science degree, or a Bachelor of Science Degree in Technology Management.

#### Total Program Credits: 63

General Education Requirements:		16 Credits
ENGLISH		
	<a href="#">ENGL 1010</a>	Introduction to Academic Writing CC 3
or	<a href="#">ENGH 1005</a>	Literacies and Composition Across Contexts CC (5)
MATHEMATICS		3
	<a href="#">MAT 1010</a>	Intermediate Algebra (4)
or	<a href="#">ACC 1150</a>	Fundamentals of Business Math (3)
or	<a href="#">EGDT 1600</a>	Technical Math--Algebra (3)
HUMANITIES/FINE ARTS/FOREIGN LANGUAGE		
	Any approved Humanities, Fine Arts, or Foreign Language Distribution Course 3	
SOCIAL AND BEHAVIORAL SCIENCE		
	Any approved Social or Behavioral Science Distribution course 3	
BIOLOGY OR PHYSICAL SCIENCE		
	Any approved Biology or Physical Science Distribution Course 3	

PHYSICAL EDUCATION/HEALTH/SAFETY OR ENVIRONMENT		
	Any approved Physical Education, Health, Safety or Environment Course	1
Discipline Core Requirements:		47 Credits
<a href="#">CAW 140R</a>	Millwork Technology (4) 1	16
<a href="#">CAW 1130</a>	Residential Cabinetry	4
<a href="#">CAW 1150</a>	Design Drafting and Billing	3
<a href="#">CAW 1170</a>	Finish Technology	2
<a href="#">CAW 1210</a>	Cabinetmaking Materials and Hardware	1
<a href="#">CAW 1250</a>	Drafting and Computer Applications for Cabinetmakers	4
<a href="#">CAW 299R</a>	Skills USA	1
<a href="#">CAW 2250</a>	Computer Aided Manufacturing for Woodworking	4
<a href="#">CAW 2300</a>	Counter-top Technology	3
<a href="#">CAW 2430</a>	Commercial Cabinetry Technology	4
<a href="#">CAW 2450</a>	Machine Maintenance and Upkeep	2
<a href="#">EGDT 1040</a>	Fundamentals of Technical Engineering Drawing	3

#### Graduation Requirements:

1. Completion of a minimum of 63 semester credits.
2. Overall grade point average of 2.0 (C) or above.
3. Residency hours--minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.
5. Complete all core requirements with a minimum grade of "C-" or better.

### Cabinetry and Architectural Woodwork, A.A.S. Careers

1. Graduates of this program will be able to design, plan, and execute a complex woodworking project
2. Graduates will be able to obtain employment (employer or self) in the industry
3. Graduates of this program will be accepted into a related bachelor degree program or advanced trade program

#### Related Careers

- Cabinetmakers and Bench Carpenters
- Model Makers, Wood
- Patternmakers, Wood
- Sawing Machine Setters, Operators, and Tenders, Wood
- Woodworking Machine Setters, Operators, and Tenders, Except Sawing
- Woodworkers, All Other

### Cabinetry and Architectural Woodwork, A.S.

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#### Requirements

Students may receive a One-Year Certificate, a Diploma, an Associate in Applied Science degree, an Associate in Science degree, or a Bachelor of Science Degree in Technology Management.

# Construction Technologies

**Total Program Credits: 63**

General Education Requirements:		35 Credits
	<a href="#">ENGL 1010</a> Introduction to Academic Writing CC	3
or	<a href="#">ENGL 1010</a> Introduction to Academic Writing CC	3
	<a href="#">ENGL 1010</a> Introduction to 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)	
	<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 2700</a> US History to 1877 AS (3.0)	
and	<a href="#">HIST 2710</a> US History since 1877 AS (3.0)	
	<a href="#">HIST 1700</a> American Civilization AS (3.0)	
	<a href="#">HIST 1740</a> US Economic History 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 (2.0)	
or	<a href="#">EXSC 1097</a> Fitness for Life TE	2
Distribution Courses		
	Biology	3
	Physical Science	3
	Additional Biology or Physical Science	3
	Humanities Distribution	3
	Fine Arts Distribution	3
	Social/Behavioral Science	3
Discipline Core Requirements:		28 Credits
	Choose from CAW courses 1000 level or higher	11
	<a href="#">CAW 140R</a> Millwork Technology (4.0)	12
	<a href="#">CAW 1150</a> Design Drafting and Billing	3
	<a href="#">CAW 1170</a> Finish Technology	2

## Graduation Requirements:

1. Completion of a minimum of 63 semester credits
2. Overall grade point average of 2.0 (C) or above.
3. Residency hours--minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

## Cabinetry and Architectural Woodwork, A.S. Careers

1. Graduates of this program will be able to design, plan, and execute a complex woodworking project
2. Graduates will be able to obtain employment (employer or self) in the industry
3. Graduates of this program will be accepted into a related bachelor degree program or advanced trade program

## Related Careers

- Cabinetmakers and Bench Carpenters
- Model Makers, Wood
- Patternmakers, Wood
- Sawing Machine Setters, Operators, and Tenders, Wood
- Woodworking Machine Setters, Operators, and Tenders, Except Sawing
- Woodworkers, All Other

## Construction Management, A.A.S.

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## Requirements

Students may earn an Associate in Applied Science degree. The Clyde Institute of Construction Management Program has been designed to provide students a strong foundation in Construction Management that prepares them for jobs in construction site supervision and/or for advancement on to a BS degree in Construction Management. The program provides courses in building construction, construction management and construction science that apply to all segments of the construction industry with an emphasis on heavy civil and commercial construction. Students will learn about construction materials and methods through the use of readings, 3-D models, hands-on laboratory exercises, and site visits. Construction management courses in estimating and scheduling are also provided along with a strong background in mathematics, computer technology, business and other general education subjects. A supervisory course is also required so students can learn to manage workers at construction sites.

**Total Program Credits: 63**

General Education Requirements:		24 Credits
	<a href="#">ENGL 1010</a> Introduction to Academic Writing CC	3
or	<a href="#">ENGL 1010</a> Introduction to Academic Writing CC	3
	<a href="#">ENGL 1010</a> Introduction to Academic Writing CC	3
Choose one of the following		3
	<a href="#">MAT 1030</a> Quantitative Reasoning QL (3)	
	<a href="#">MAT 1035</a> Quantitative Reasoning with Integrated Algebra QL (6)	
	<a href="#">STAT 1040</a> Introduction to Statistics QL (3)	
	<a href="#">STAT 1045</a> Introduction to Statistics with Algebra QL (3)	
	<a href="#">MATH 1050</a> College Algebra QL (4)	
	<a href="#">MATH 1055</a> College Algebra with Preliminaries QL (5)	
	<a href="#">MATH 1090</a> College Algebra for Business QL	
	Fine Arts or Humanities Distribution <sup>1, 2</sup>	3
	Humanities Distribution <sup>1, 3</sup>	3

	Social Sciences Distribution <sup>1, 4</sup>	3
	Physical Science Distribution <sup>1, 4</sup>	3
	Third Science Distribution <sup>1, 6</sup>	3
Discipline Core Requirements:		39 Credits
	<a href="#">EGDT 1400</a> Surveying Applications and Field Techniques I	3
	<a href="#">EGDT 1600</a> Technical Math Algebra	3
	<a href="#">EGDT 1610</a> Technical Math Geometry Trig	3
	<a href="#">CMGT 1010</a> Introduction to Construction Management WE	3
	<a href="#">CMGT 1020</a> Construction Materials and Methods I	3
	<a href="#">CMGT 1150</a> Construction Safety	2
Choose one of the following:		3
	<a href="#">CMGT 1190</a> Concrete and Framing Lab (3)	
	<a href="#">CMGT 1220</a> Finishing Lab (3)	
	<a href="#">CMGT 281R</a> Internship (1-6)	
	<a href="#">CMGT 2010</a> Construction Materials and Methods II	3
	<a href="#">CMGT 2035</a> Construction Computer Applications (Recommended)	3
or	<a href="#">IM 2010</a> Business Computer Proficiency (3)	
	<a href="#">CMGT 2060</a> Construction Job Site Management	3
	<a href="#">CMGT 2080</a> Principles of Construction Scheduling	3
	<a href="#">CMGT 289R</a> Construction Industry Seminar (Must be taken twice for a total of one credit.)	1
Complete 6 credits from the following two specializations:		6
Heavy/Civil		
	<a href="#">EGDT 2400</a> Surveying Applications and Field Techniques II (3)	
	<a href="#">EGDT 1040</a> Fundamentals of Technical Engineering Drawing (3)	
Commercial/Residential		
	<a href="#">BIT 1010</a> Building Codes (3)	
or	<a href="#">BIT 1020</a> Residential Codes (3)	
	<a href="#">EGDT 1020</a> 3D Architectural Modeling (3)	

**Graduation Requirements:**

1. Completion of a minimum of 63 semester credits.
2. Overall grade point average of 2.0 (C) or above.
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.
4. Complete all core requirements with a minimum grade of C - or better.

Footnote:
<sup>1</sup> See catalog for approved listings
<sup>2</sup> Highly recommended: <a href="#">EGDT 1720</a> Architectural Rendering FF
<sup>3</sup> Recommended: <a href="#">COMM 1020</a> Public Speaking HH
<sup>4</sup> Recommended <a href="#">COMM 2110</a> Interpersonal Communication SS or <a href="#">FIN 1060</a> Personal Finance SS

<sup>5</sup> Recommended: <a href="#">PHYS 1010</a> Elementary Physics PP or <a href="#">PHSC 1000</a> Survey of Physical Science PP or <a href="#">ENVT 1110</a> Introduction to Environment Management PP
<sup>6</sup> Recommended: <a href="#">GEO 1010</a> Introduction to Geology PP or <a href="#">ENVT 1110</a> Introduction to Environmental Management PP

**Construction Management, A.A.S. Careers**

1. Recognition of the need for health and safety, accident prevention, and regulatory compliance.
2. An understanding of materials, labor and methods of construction.
3. An ability to identify and analyze project delivery methods.
4. An ability to use and apply verbal and written business and communication skills.

**Related Careers**

- Construction Managers

**Facilities Management, A.A.S.**

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**Requirements**

The Facilities Management associate's degree is designed to prepare graduates to manage physical facilities such as resorts, health care centers, government facilities, recreational complexes, schools, industrial plants, and apartment buildings. Two degree options are available: an Associate in Applied Science degree and a Bachelor of Science Degree in Technology Management.

**Total Program Credits: 64**

General Education Requirements:		17 Credits
	<a href="#">CMGT 1150</a> Construction Safety	2
	<a href="#">ENGL 1010</a> Introduction to Academic Writing CC	3
or	<a href="#">ENGL 1005</a> Literacies and Composition Across Contexts CC (5)	
	<a href="#">EGDT 1600</a> Technical Math Algebra	3
or	<a href="#">MAT 1030</a> Quantitative Reasoning QL (3)	
or	<a href="#">MAT 1035</a> Quantitative Reasoning with Integrated Algebra QL (3)	
	<a href="#">PHIL 2050</a> Ethics and Values IH	3
Any approved Biology or Physical Science Distribution Course <sup>1</sup>		3
	<a href="#">TECH 200G</a> Technology and Human Life SS GI	3
Discipline Core Requirements:		48 Credits
	<a href="#">ACC 2010</a> Financial Accounting	3
	<a href="#">ART 1820</a> Interior Space Design	3
	<a href="#">DGM 1645</a> Mixed Reality Essentials	2
	<a href="#">BIT 1010</a> Building Codes	3
	<a href="#">CMGT 1010</a> Introduction to Construction Management	3
	<a href="#">CMGT 1190</a> Concrete and Framing Lab	3
or	<a href="#">CMGT 281R</a> Internship (1)	

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	CMGT 1220	Finishing Lab	3
or	CMGT 281R	Internship (1)	
	CMGT 1020	Construction Materials and Methods I	3
	CMGT 2010	Construction Materials and Methods II	3
	CMGT 2035	Construction Computer Applications	3
	CMGT 2080	Principles of Construction Scheduling	3
	FAC 1010	Survey of Facilities Management	3
	EGDT 1020	3D Architectural Modeling	3
	EGDT 1040	Fundamentals of Technical Engineering Drawing	3
	EGDT 1050	Intro to 3D Printing and Fabrication PP	3
	MKTG 220G	Written Business Communication GI WE	3

### Graduation Requirements:

1. Completion of a minimum of 64 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.

Footnote

<sup>1</sup>Recommended PHYS 1010 Elementary Physics PP

## Facilities Management, A.A.S.

### Careers

1. Graduates of this program will be employed in a facilities management related field.
2. Graduates of this program will be accepted into an industry recognized advanced program of bachelor degree program.

### Related Careers

- First-Line Supervisors of Housekeeping and Janitorial Workers
- First-Line Supervisors of Construction Trades and Extraction Workers
- Maintenance and Repair Workers, General

## Cabinetry and Architectural Woodwork, Certificate of Completion

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### Requirements

Students may receive a One-Year Certificate, a Diploma, an Associate in Applied Science degree, an Associate in Science degree, or a Bachelor of Science Degree in Technology Management.

### Total Program Credits: 32

Discipline Core Requirements:		32 Credits	
	ACC 1150	Fundamentals of Business Math	3
	CAW 1130	Residential Cabinetry	4
	CAW 1140	Millworking and Safety Shop I	5
	CAW 1150	Design Drafting and Billing	3
	CAW 1170	Finish Technology	2

	CAW 1210	Cabinetmaking Materials and Hardware	1
	CAW 1240	Millworking Shop II	5
	CAW 1250	Drafting and Computer Applications for Cabinetmakers	4
	CAW 2310	Cabinetry Math	2
	EGDT 1040	Fundamentals of Technical Engineering Drawing	3

### Graduation Requirements:

1. Completion of a minimum of 32 semester credits.
2. Overall grade point average of 2.0 (C) or above.
3. Residency hours -- minimum of 10 credit hours through course attendance at UVU.
4. Complete all courses with a minimum grade of "C-" or better.

## Cabinetry and Architectural Woodwork, Certificate of Completion

### Careers

1. Graduate of the CC will be able to design and plan a project by identifying required materials and equipment
2. Graduates will be able to setup and safely operate standard cabinetry shop equipment (ie: table saws, jointers/planers, shapers, sanders...etc)

### Related Careers

- Cabinetmakers and Bench Carpenters
- Model Makers, Wood
- Patternmakers, Wood
- Sawing Machine Setters, Operators, and Tenders, Wood
- Woodworking Machine Setters, Operators, and Tenders, Except Sawing
- Woodworkers, All Other

## Cabinetry and Architectural Woodwork, Certificate of Proficiency

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### Requirements

The Certificate of Proficiency in Cabinetry and Architectural Woodwork is available for all UVU students with a particular focus for high school students who desire to obtain a stackable certificate of proficiency with an emphasis in career and technical education while still enrolled in high school. This certificate will also be available from the University for college students/adults looking for basic entry-level skills leading to further academic advancement and learn more about the Cabinetry career field

### Total Program Credits: 17

Discipline Core Requirements		17 Credits	
	ENGL 1010	Introduction to Academic Writing CC	3
or	ENGL 1005	Literacies and Composition Across Contexts CC (5.0)	
	MAT 1010	Intermediate Algebra	4

	CAW 140R	Millwork Technology	4
	EGDT 1040	Fundamentals of Technical Engineering Drawing	3
	FIN 1060	Personal Finance SS	3

**Graduation Requirements:**

1. Completion of a minimum of 17 credits.
2. Overall grade point average of 2.0 (C) or above.
3. Residency hours -- minimum of 4 credit hours through course attendance at UVU.

**Cabinetry and Architectural Woodwork, Certificate of Proficiency Careers**

1. Possess a working knowledge of Cabinetmaking Standards as set forth by Architectural Woodwork Institute (AWI).
2. Possess the skills and trade knowledge necessary to be productive in the cabinet making industry.
3. Possess good computational and reasoning skills.

**Related Careers**

- Cabinetmakers and Bench Carpenters
- Model Makers, Wood
- Patternmakers, Wood
- Sawing Machine Setters, Operators, and Tenders, Wood
- Woodworking Machine Setters, Operators, and Tenders, Except Sawing
- Woodworkers, All Other

**Construction Management, Certificate of Completion**

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**Requirements**

A Certificate of Completion for students seeking an applied education in construction. The courses can lead the students who desire to further their education towards the AAS and/or BS degree in Construction Management.

**Total Program Credits: 30**

Discipline Core Requirements:			30 Credits
	CMGT 1010	Introduction to Construction Management WE	3
	CMGT 1020	Construction Materials and Methods I	3
	CMGT 1150	Construction Safety	2
Complete one of the following:			3
	CMGT 1190	Concrete and Framing Lab	
or	CMGT 281R	Internship (1) (For maximum of 3 credits toward graduation)	
	CMGT 1220	Finishing Lab (3)	
Complete the following:			

	CMGT 2010	Construction Materials and Methods II	3
	CMGT 2035	Construction Computer Applications	.
or	IM 2010	Business Computer Proficiency	
	CMGT 289R	Construction Industry Seminar (Must be taken twice for a total of one credit.)	1
	EGDT 1400	Surveying Applications and Field Techniques I	3
	EGDT 1600	Technical Math Algebra	3
Complete one of the following:			3
	MAT 1030	Quantitative Reasoning QL (3)	
	MAT 1035	Quantitative Reasoning with Integrated Algebra QL (6)	
	STAT 1040	Introduction to Statistics QL(3)	
	STAT 1045	Introduction to Statistics with Algebra QL (5)	
	MATH 1050	College Algebra QL (4)	
	MATH 1055	College Algebra with Preliminaries QL (5)	
	MATH 1090	College Algebra for Business QL (3)	
Social Science Distribution (Comm 2110 Recommended)			3

**Graduation Requirements:**

1. Completion of a minimum of 30 semester credits.
2. Overall grade point average of 2.0 (C) or above.
3. No grade lower than a C-.
4. Residency hours -- minimum of 10 credit hours through course attendance at UVU.

**Construction Management, Certificate of Completion Careers**

1. Students will demonstrate a basic understanding of construction management principles and practices in the following areas: Construction Blueprint Reading, Construction Processes, Construction Costs and Quantity Surveys, Construction Operations and Safety, Construction Management Principles.
2. Students will demonstrate verbal and written communication skills.
3. Students will have a foundational understanding of the following basic business practices: Business Communications, Business Computer Proficiency
4. Students will have a solid understanding of construction science in heavy civil, commercial, and residential construction areas including the following: Surveying, Construction Tools and Equipment, Construction Codes and Standards, Construction Graphics and Models, Construction Materials and Methods, Construction Systems, Construction Quality and Safety
5. Students will have a strong foundation in mathematics and science: Algebra.

**Related Careers**

- Construction Managers

**Construction Management, Certificate of Proficiency**

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# Construction Technologies

## Requirements

This certificate is available to all UVU students with a particular focus designed to provide high school students an opportunity to obtain a certificate of proficiency in a Career and Technical Education (CTE) field while still enrolled in high school and stack into certificate, associate and bachelor degrees at UVU. This certificate will also be available from the University for college students/adults looking for entry-level skills leading to further academic advancement and learn more about the construction field.

### Total Program Credits: 15

Discipline Core Requirements		15 Credits
	CMGT 1190 Concrete and Framing Lab	3
	CMGT 1220 Finishing Lab	3
	ENGL 1010 Introduction to Academic Writing CC	3
or	ENGH 1005 Literacies and Composition Across Contexts CC (5)	
Complete one of the following:		3
	MAT 1030 Quantitative Reasoning QL (3)	
	MAT 1035 Quantitative Reasoning with Integrated Algebra QL (6)	
	STAT 1040 Introduction to Statistics QL (3)	
	STAT 1045 Introduction to Statistics with Algebra QL (5)	
	MATH 1050 College Algebra QL (3)	
	MATH 1055 College Algebra with Preliminaries QL (3)	
	CMGT 2035 Construction Computer Applications (3)	
or	IM 2010 Business Computer Proficiency (3)	

### Graduation Requirements:

1. Completion of a minimum of 15 credits.
2. Overall grade point average of 2.0 (C) or above.
3. Residency hours -- minimum of 4 credit hours through course attendance at UVU.

## Construction Management, Certificate of Proficiency Careers

1. Recognition of the need for health and safety, accident prevention, and regulatory compliance.
2. An understanding of materials, labor and methods of construction.
3. An ability to use and apply current technical concepts and practices in planning and scheduling.
4. An ability to identify and analyze project delivery methods.
5. An ability to function effectively on teams and demonstrate skills in leadership and managing people.
6. An ability to use and apply verbal and written business and communication skills.

### Related Careers

- Construction Managers

## Woodworking Education, Certificate of Proficiency

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### Requirements

The CP in Woodworking Education is a package of existing courses that provides licensed, secondary education teachers in Utah with a pathway for adding the Associate level Woods endorsement to their professional portfolio. In addition, it establishes a means for individuals who wish to enter the teaching profession and are seeking a teaching credential with a means to demonstrate the content knowledge required for the Associate level Woods endorsement. It supports the endorsement portion of the licensing process only. It is not a full-fledged teacher preparation program and does not result in a recommendation for licensure.

### Total Program Credits: 19

Discipline Core Requirements:		19 Credits
	CAW 140R Millwork Technology	4
	CAW 1130 Residential Cabinetry	4
	CAW 1150 Design Drafting and Billing	3
	CAW 1170 Finish Technology	2
	CAW 2250 Computer Aided Manufacturing for Woodworking	4
	CAW 2450 Machine Maintenance and Upkeep	2

### Graduation Requirements:

1. Completion of a minimum of 19 credits.
2. Overall grade point average of 2.0 (C) or above.
3. Residency hours--minimum of 4 credit hours through course attendance at UVU.

## Woodworking Education, Certificate of Proficiency Careers

1. To provide existing teachers with the fundamental knowledge needed to present woodworking courses to secondary education students
2. To provide prospective teachers with a pathway and content knowledge they must demonstrate as they pursue licensure/endorsement
3. To provide existing and prospective teachers with the fundamental skills needed to present woodworking courses to secondary education students.

### Related Careers

- Woodworkers, All Other

## Cabinetry and Architectural Woodwork, Diploma

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### Requirements

Students may receive a One-Year Certificate, a Diploma, an Associate in Applied Science degree, an Associate in Science degree, or a Bachelor of Science Degree in Technology Management.

**Total Program Credits: 49**

Discipline Core Requirements:			49 Credits
CAW 1130	Residential Cabinetry		4
CAW 140R	Millwork Technology <sup>1</sup>		4
CAW 140R	Millwork Technology <sup>1</sup>		4
CAW 140R	Millwork Technology <sup>1</sup>		4
CAW 140R	Millwork Technology <sup>1</sup>		4
CAW 1150	Design Drafting and Billing		3
CAW 1170	Finish Technology		2
CAW 1210	Cabinetmaking Materials and Hardware		1
CAW 1250	Drafting and Computer Applications for Cabinetmakers		4
CAW 2250	Computer Aided Manufacturing for Woodworking		4
CAW 2300	Counter Top Technology		3
CAW 2310	Cabinetry Math		2
CAW 2430	Commercial Cabinetry Technology		4
CAW 2450	Machine Maintenance and Upkeep		2
CAW 299R	Skills USA		1
EGDT 1040	Fundamentals of Technical Engineering Drawing		3

**Graduation Requirements:**

1. Completion of a minimum of 49 or more semester credits.
2. Overall grade point average of 2.0 (C) or above.
3. Residency hours--minimum of 20 credit hours through course attendance at UVU.
4. Complete all Technical Specialty courses with a minimum grade of "C-" or better.

Footnote:
<sup>1</sup> Required 4 times

**Cabinetry and Architectural Woodwork, Diploma Careers**

1. Possess a working knowledge of Cabinetmaking Standards as set forth by Architectural Woodwork Institute (AWI).
2. Possess the skills and trade knowledge necessary to be productive in the cabinet making industry.
3. Possess good computational and reasoning skills.

**Related Careers**

- Cabinetmakers and Bench Carpenters
- Model Makers, Wood
- Patternmakers, Wood
- Sawing Machine Setters, Operators, and Tenders, Wood
- Woodworking Machine Setters, Operators, and Tenders, Except Sawing
- Woodworkers, All Other

**Construction Management, B.S.**

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**Requirements**

Students may earn an Associate in Applied Science degree. The Clyde Institute of Construction Management Program has been designed to provide students a strong foundation in Construction Management that prepares them for jobs in construction site supervision and/or for advancement on to a BS degree in Construction Management. The program provides courses in building construction, construction management and construction science that apply to all segments of the construction industry with an emphasis on heavy civil and commercial construction. Students will learn about construction materials and methods through the use of readings, 3-D models, hands-on laboratory exercises, and site visits. Construction management courses in estimating and scheduling are also provided along with a strong background in mathematics, computer technology, business and other general education subjects. A supervisory course is also required so students can learn to manage workers at construction sites.

**Total Program Credits: 120**

General Education Requirements:			35 Credits
	ENGL 1010	Introduction to Academic Writing CC	3
or	ENGL 1005	Literacies and Composition Across Contexts CC (5)	
	ENGL 2010	Intermediate Academic Writing CC	3
Complete one of the following:			3
	MAT 1030	Quantitative Reasoning QL (3)	
	MAT 1035	Quantitative Reasoning with Integrated Algebra QL (6)	
	STAT 1040	Introduction to Statistics QL (3)	
	STAT 1045	Introduction to Statistics with Algebra QL (5)	
	MATH 1050	College Algebra QL (4)	
	MATH 1055	College Algebra with Preliminaries QL (5)	
	MATH 1090	College Algebra for Business QL (3)	
Complete one of the following:			3
	HIST 1700	American Civilization AS (3)	
	HIST 1740	US Economic History AS (3)	
	HIST 2700	US History to 1877 AS (3)	
and	HIST 2710	US History since 1877 AS (3)	
	POLS 1000	American Heritage SS (3)	
	POLS 1100	American National Government AS (3)	
Complete the following:			
	PHIL 2050	Ethics and Values IH	3
	HLTH 1100	Personal Health and Wellness TE (2)	
or	EXSC 1097	Fitness for Life TE	2
Distribution Courses			
	Biology Distribution <sup>1</sup>		3
	Humanities Distribution <sup>2</sup>		3
	Social Science Distribution <sup>3</sup>		3
	Physical Science Distribution <sup>4</sup>		3
	Third Science Distribution <sup>5</sup>		3
	Fine Arts Distribution <sup>6</sup>		

# Construction Technologies

Discipline Core Requirements		76 Credits
	CMGT 1010 Introduction to Construction Management WE	3
	CMGT 1150 Construction Safety	2
	CMGT 1190 Concrete and Framing Lab	3
or	CMGT 1220 Finishing Lab (3)	
or	CMGT 281R Internship (1-6) (3 credits maximum towards graduation)	
	CMGT 1020 Construction Materials and Methods I	3
	CMGT 2010 Construction Materials and Methods II	3
	CMGT 2035 Construction Computer Applications	3
or	IM 2010 Business Computer Proficiency (3)	
	CMGT 2060 Construction Job Site Management	3
	CMGT 2080 Principles of Construction Scheduling	3
	CMGT 289R Construction Industry Seminar (Must be taken twice for a total of one credit.)	1
	CMGT 3010 Construction Materials Testing	3
	CMGT 3030 Principles of Construction Estimating	3
	CMGT 3060 Applied Statics and Strength of Materials	3
or	EGDT 2600 Applied Structures I - Statics (3)	
and	EGDT 2610 Applied Structures II - Strength of Materials (3)	
	CMGT 3080 Construction Financial Management	3
	CMGT 405G Global Sustainability and the Built Environment GI WE	3
	CMGT 4010 Construction Contracts <sup>7</sup>	3
	CMGT 4500 Senior Capstone	3
	CMGT 481R Internship (1-4) (1 credit required for graduation. Maximum of 4 credits may count towards graduation. Students with sufficient management experience may choose an upper division elective in CMGT, EGDT, SURV or Woodbury School of Business with department approval)	1
	LEGL 3000 Business Law	3
	EGDT 1400 Surveying Applications and Field Techniques I	3
	EGDT 1600 Technical Math Algebra	3
	EGDT 1610 Technical Math Geometry Trig	3
	ACC 3000 Financial Managerial and Cost Accounting Concepts (Highly recommended)	3
or	ACC 2110 Principles of Accounting I (3)	
and	ACC 2120 Principles of Accounting II (3)	
Complete 15 credits from one of the following two specializations (A minimum of 5 credits must be upper division):		15
Heavy/Civil		
	EGDT 1040 Fundamentals of Technical Engineering Drawing (3)	

	EGDT 2400 Surveying Applications and Field Techniques II (3)	
	CMGT 3050 Construction Equipment/Planning and Logistics (3)	
	CMGT 3090 Principles of Hydrology in Construction Management (3)	
or	SURV 3230 Construction and Route Surveys (3)	
	EGDT 3500 Advanced Civil Drafting and Design (3)	
Commercial/Residential		
	BIT 1010 Building Codes (3)	
or	BIT 1020 Residential Codes (3)	
	EGDT 1020 3D Architectural Modeling (3)	
	CMGT 3020 Building Envelopes and Mechanical Systems (3)	
	CMGT 3160 Building Information Modeling (3)	
	CMGT 4020 Construction Project Management (3) (High Recommended)	
or	TECH 3400 Project Management WE (3)	
Elective Requirements:		9 Credits
Choose 9 credits from the following:		9
	Upper division Woodbury School of Business courses	
	Upper division Technology Management courses	
	Other upper division Technical Specialty courses as approved by Department Chair	
	Any upper division CMGT or EGDT courses not already completed.	

## Graduation Requirements:

1. Completion of a minimum of 120 semester hours
2. A minimum of 40 credits must be upper-division (numbered 3000 or above).
3. Overall grade point average of 2.0 (C) or above
4. No grade lower than a C- in any Discipline Core or Elective course
5. Completion of GE and specified departmental requirements
6. Residency hours - Minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours
7. Successful completion of at least one Global/Intercultural course.
8. Successful completion of at least two Writing Enriched (WE) courses.

Footnote
<sup>1</sup> See catalog for approved listings
<sup>2</sup> Highly Recommended: COMM 1020 Public Speaking HH. See catalog for approved listings.
<sup>3</sup> Recommended: COMM 2110 Interpersonal Communication SS or FIN 1060 Personal Finance SS. See catalog for approved listings
<sup>4</sup> Recommended: PHYS 1010 Elementary Physics PP or PHSC 1000 Survey of Physical Science PP. See catalog for approved listings
<sup>5</sup> Recommended: GEO 1010 Introduction to geology PP or ENVT 1110 Introduction to Environmental Management PP. See catalog for approved listings



<sup>6</sup>Highly Recommended: EGDT 1720 Architectural Rendering FF. See catalog for approved listings

<sup>7</sup>Students who have passed the state Real Estate exam may receive substitution credit. See advisor for more information.

## **Construction Management, B.S.**

### ***Careers***

1. Construction project management from pre-design through commissioning.
2. An ability to analyze the local and global impact of project life-cycle and sustainability.
3. Recognition of the need for health and safety, accident prevention, and regulatory compliance.
4. An ability to apply knowledge of law, contract documents administration, and dispute prevention and resolution.
5. An understanding of materials, labor and methods of construction.
6. An ability to apply knowledge finance and accounting principles.
7. An ability to use and apply current technical concepts and practices in planning and scheduling.
8. An ability to design, implement, and evaluate construction cost management including plan reading, quantity take offs and estimating.
9. An ability to identify and analyze project delivery methods.
10. An ability to function effectively on teams and demonstrate skills in leadership and managing people.
11. An ability to use and apply verbal and written business and communication skills.

### ***Related Careers***

- Construction Managers