# Construction Technologies

## Construction Technologies

The Construction Technologies department is in the College of Engineering & Technology. To find the most up-to-date information from the Construction Technologies department, visit their website.

Construction Technologies department

**DEPARTMENT CHAIR**

**WARCUP, Robert** *Associate Professor*

**FACULTY**

**ADAMS, Kenneth** *Assistant Professor*
**BAIRD, Kellan** *Associate Professor*
**COX, James** *Associate Professor*
**ERDMANN, DeWayne** *Associate Professor*
**HALLSTED, Barry** *Associate Professor*
**LINFIELD, J. Eric** *Associate Professor*
**SCHELLENBERG, Justin H.** *Assistant Professor*
**WARCUP, Robert** *Associate Professor*

# Degrees & Programs

## Building Inspection Technology, A.A.S.

### *Requirements*

**NOT CURRENTLY ACCEPTING STUDENTS**

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

Reminder: an overall grade point average of 2.0 (C) or above is required for graduation.

**Total Program Credits: 64**

| | | | |
|---|---|---|---|
| General Education Requirements: | | | 17 Credits |
| | CMGT 1150 | Construction Safety | 2 |
| | COMM 1020 | Public Speaking | 2 |
| and | COMM 1025 | Public Speaking Lab | 1 |
| | COMM 2110 | Interpersonal Communication | 3 |
| | EGDT 1600 | Technical Math--Algebra | 3 |
| or | MAT 1030 | Quantitative Reasoning (3) | |
| or | MAT 1035 | Quantitative Reasoning with Integrated Algebra QL (6) | |
| | PHSC 1000 | Survey of Physical Science (recommended for Biology/Physical Science requirement) | 3 |
| | ENGL 1010 | Introduction to Academic Writing | 3 |
| or | ENGH 1005 | Literacies and Composition Across Contexts (5) | |
| Discipline Core Requirements: | | | 47 Credits |
| | BIT 1010 | Building Codes | 3 |
| | BIT 1170 | Field Lab--Building Codes | 1 |
| | BIT 1230 | Plan Review | 3 |
| | BIT 1240 | Plumbing Codes | 3 |
| | BIT 1330 | Mechanical Codes (recommended) | 3 |
| or | CMGT 3020 | Building Envelopes and Mechanical Systems (3) | |
| | BIT 1340 | Electrical Codes | 3 |
| | BIT 1380 | Ride-Along Lab | 1 |
| | EGDT 1020 | 3D Architectural Modeling | 3 |
| | EGDT 1400 | Surveying Applications and Field Techniques I | 3 |
| | ESFO 2030 | Fire Inspector I | 3 |
| | IM 2010 | Business Computer Proficiency | 3 |
| or | IM 2600 | Spreadsheet Applications (3) | |
| or | IM 3700 | Database Applications (3) | |
| | CMGT 1010 | Introduction to Construction Management | 3 |
| | CMGT 1020 | Construction Materials and Methods I | 3 |
| | CMGT 2010 | Construction Materials and Methods II | 3 |
| | CMGT 1190 | Concrete and Framing Lab | 3 |
| or | CMGT 281R | Internship (1) | |
| | CMGT 1220 | Finishing Lab | 3 |
| or | CMGT 281R | Internship (1) | |
| | CMGT 3010 | Construction Materials Testing | 3 |

**Graduation Requirements:**

1. Completion of a minimum of 64 semester credits.
2. Overall grade point average of 2.0 (C) or above (department may require a higher GPA).
3. Residency hours--minimum of 20 credit hours through course attendance at UVU.

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

### *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 | | | |
| | ENGL 1010 | Introduction to Academic Writing | 3 |
| or | ENGH 1005 | Literacies and Composition Across Contexts (5) | |
| MATHEMATICS | | | |
| | MAT 1010 | Intermediate Algebra (4) | |
| or | ACC 1150 | Fundamentals of Business Math | 3 |
| or | EGDT 1600 | 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 |
| | CAW 140R | Millwork Technology (4) 1 | 16 |
| | CAW 1130 | Residential Cabinetry | 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 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 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.

| Footnote |
|---|
| 1 Four semesters required |

## Cabinetry and Architectural Woodwork, A.S.

### *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: | | | 35 Credits |
| | ENGL 1010 | Introduction to Writing | 3 |
| or | ENGH 1005 | Literacies and Composition Across Context (5.0) | |
| | ENGL 2010 | Intermediate Writing Academic Writing and Research | 3 |
| Complete one of the following: | | | 3 |
| | MAT 1030 | Quantitative Reasoning (3.0) | |
| | MAT 1035 | Quantitative Reasoning with Integrated Algebra (6.0) | |
| | STAT 1040 | Introduction to Statistics (3.0) | |
| | STAT 1045 | Introduction to Statistics with Algebra (5.0) | |
| | MATH 1050 | College Algebra (4.0) | |
| | MATH 1055 | College Algebra with Preliminaries (5.0) | |
| | MATH 1090 | College Algebra for Business (3.0) | |

| | | | |
|---|---|---|---|
| Complete one of the following: | | | 3 |
| | HIST 2700 | US History to 1877 (3.0) | |
| and | HIST 2710 | US History since 1877 (3.0) | |
| | HIST 1700 | American Civilization (3.0) | |
| | HIST 1740 | US Economic History (3.0) | |
| | POLS 1000 | American Heritage (3.0) | |
| | POLS 1100 | American National Government (3.0) | |
| Complete the following: | | | |
| | PHIL 2050 | Ethics and Values | 3 |
| | HLTH 1100 | Personal Health and Wellness (2.0) | |
| or | PES 1097 | Fitness for Life | 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 |
| | CAW 140R | Millwork Technology (4.0) 1 | 12 |
| | CAW 1150 | Design Drafting and Billing | 3 |
| | CAW 1170 | 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.

## Construction Management, A.A.S.

### *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: | | | 18 Credits |
| | EGDT 1600 | Technical Math--Algebra | 3 |
| or | MAT 1030 | Quantitative Reasoning (3) | |
| or | MAT 1035 | Quantitative Reasoning with Integrated Algebra (6) | |
| | ENGL 1010 | Introduction to Academic Writing | 3 |
| or | ENGH 1005 | Literacies and Composition Across Contexts (5) | |
| | Fine Arts or Humanities Distribution [1, 2] | | 3 |
| | Social Sciences Distribution [3] | | 3 |
| | Physical Science Distribution [4] | | 3 |
| | Science (3rd) Distribution [5] | | 3 |
| Discipline Core Requirements: | | | 36 Credits |
| | EGDT 1400 | Surveying Applications and Field Techniques I | 3 |
| | EGDT 1610 | Technical Math Geometry Trig | 3 |
| | CMGT 1010 | Introduction to Construction Management | 3 |
| | CMGT 1020 | Construction Materials and Methods I | 3 |
| | CMGT 1150 | Construction Safety | 2 |
| | CMGT 1190 | Concrete and Framing Lab | 3 |
| or | CMGT 1220 | Finishing Lab (3) | |
| or | CMGT 281R | Internship (1) | |
| | CMGT 2010 | Construction Materials and Methods II | 3 |
| | CMGT 2035 | Construction Computer Applications (Recommended) | 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 |
| | Complete 6 credits from the following two specializations: | | 6 |
| Heavy/Civil | | | |
| | EGDT 2400 | Surveying Applications and Field Techniques II (3) | |
| | EGDT 1040 | Fundamentals of Technical Engineering Drawing (3) | |
| Commercial/Residential | | | |
| | BIT 1010 | Building Codes (3) | |
| or | BIT 1020 | Residential Codes (3) | |
| | EGDT 1020 | 3D Architectural Modeling (3) | |
| Elective Requirements: | | | 9 Credits |
| | Complete 9 credits of lower division courses from the following prefixes: CMGT/EGDT/TECH. See advisor for recommended courses | | 9 |

**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:

[1] See catalog for approved listings

[2] Highly recommended: EGDT 1720 for Fine Arts or COMM 1020 and COMM 1025 for Humanities Distribution

[3] Recommended: MGMT 2110 or COMM 2110 or FIN 1060

[4] Recommended: PHYS 1010 or PHSC1000 or ENVT 1110

[5] Recommended: GEO 1010 or ENVT 1110. See catalog for approved listings.

## Facilities Management, A.A.S.

### *Requirements*

Two options are available: An Associate in Applied Science degree and a Bachelor of Science Degree in Technology Management.

**Total Program Credits: 65**

| | | | |
|---|---|---|---|
| General Education Requirements: | | | 17 Credits |
| | CMGT 1150 | Construction Safety | 2 |
| | ENGL 1010 | Introduction to Academic Writing | 3 |
| or | ENGH 1005 | Literacies and Composition Across Contexts (5) | |
| | EGDT 1600 | Technical Math--Algebra | 3 |
| or | MAT 1030 | Quantitative Reasoning (3) | |
| or | MAT 1035 | Quantitative Reasoning with Integrated Algebra (3) | |
| | PHIL 2050 | Ethics and Values | 3 |
| | Any approved Biology or Physical Science Distribution Course[1] | | 3 |
| | TECH 200G | Technology and Human Life | 3 |
| Discipline Core Requirements: | | | 48 Credits |
| | ACC 2010 | Financial Accounting | 3 |
| | BIT 1010 | Building Codes | 3 |
| | BIT 1230 | Plan Review | 3 |
| | CMGT 1010 | Introduction to Construction Management | 3 |
| | CMGT 1190 | Concrete and Framing Lab | 3 |
| or | CMGT 281R | Internship (1) | |
| | CMGT 1220 | Finishing Lab | 3 |
| or | CMGT 281R | Internship (1) | |

| | | | |
|---|---|---|---|
| | CMGT 2035 | Construction Computer Applications | 3 |
| | CMGT 2080 | Principles of Construction Scheduling | 3 |
| | CMGT 3020 | Building Envelopes and Mechanical Systems | 3 |
| | CMGT 3160 | Building Information Modeling | 3 |
| | EGDT 1020 | 3D Architectural Modeling | 3 |
| | FAC 1010 | Survey of Facilities Management | 3 |
| | LEGL 3130 | Real Estate Principles and Finance | 3 |
| | LEGL 3140 | Real Estate Law | 3 |
| | MKTG 220G | Written Business Communication WE | 3 |
| | MGMT 3000 | Organizational Behavior WE | 3 |

**Graduation Requirements:**

1. Completion of a minimum of 65 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 |
|---|
| [1]Recommended PHYS 1010 |

## Building Inspection Technology, Certificate of Completion

### *Requirements*

**NOT CURRENTLY ACCEPTING STUDENTS**

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

**Total Program Credits: 31**

| Discipline Core Requirements: | | | 31 Credits |
|---|---|---|---|
| | COMM 2110 | Interpersonal Communication | 3 |
| | BIT 1010 | Building Codes | 3 |
| | BIT 1170 | Field Lab--Building Codes | 1 |
| | BIT 1240 | Plumbing Codes | 3 |
| | BIT 1330 | Mechanical Codes | 3 |
| | BIT 1340 | Electrical Codes | 3 |
| | BIT 1380 | Ride-Along Lab | 1 |
| | CMGT 1020 | Construction Materials and Methods I | 3 |
| | CMGT 1150 | Construction Safety | 2 |
| | CMGT 1190 | Concrete and Framing Lab (3.0) | |
| or | CMGT 281R | Internship | 3 |
| | CMGT 1220 | Finishing Lab (3.0) | |
| or | CMGT 281R | Internship | 3 |
| | CMGT 2010 | Construction Materials and Methods II | 3 |

**Graduation Requirements:**

1. Completion of a minimum of 31 credits.
2. Overall GPA of 2.0 or higher
3. Residency hours -- Minimum of 10 credits required through course attendance at UVU

## Cabinetry and Architectural Woodwork, Certificate of Completion

### *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 Proficiency

### *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 | 3 |
| or | ENGH 1005 | Literacies and Composition Across Contexts (5.0) | |

| | | | |
|---|---|---|---|
| | MAT 1010 | Intermediate Algebra | 4 |
| | CAW 140R | Millwork Technology | 4 |
| | EGDT 1040 | Fundamentals of Technical Engineering Drawing | 3 |
| | FIN 1060 | Personal Finance | 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.

## Construction Management, Certificate of Completion

### *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: | | | 27 Credits |
|---|---|---|---|
| | CMGT 1010 | Introduction to Construction Management | 3 |
| | CMGT 1020 | Construction Materials and Methods I | 3 |
| | CMGT 1150 | Construction Safety | 2 |
| | CMGT 1190 | Concrete and Framing Lab | 3 |
| or | CMGT 281R | Internship (For maximum of 3 credits toward graduation) (1.0) | |
| | CMGT 1220 | Finishing Lab | 3 |
| or | CMGT 281R | Internship (For maximum of 3 credits toward graduation) (1.0) | |
| | CMGT 2010 | Construction Materials and Methods II | 3 |
| | CMGT 2035 | Construction Computer Applications | 3 |
| | 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 |
| Complete one of the following: | | | 3 |
| | EGDT 1600 | Technical Math--Algebra (3.0) | |
| | MAT 1030 | Quantitative Reasoning (3.0) | |
| | MAT 1035 | Quantitative Reasoning with Integrated Algebra (6.0) | |
| | STAT 1040 | Introduction to Statistics (3.0) | |
| | STAT 1045 | Introduction to Statistics with Algebra (5.0) | |
| | MATH 1050 | College Algebra (4.0) | |
| | MATH 1055 | College Algebra with Preliminaries (5.0) | |
| | MATH 1090 | College Algebra for Business (3.0) | |
| Elective Requirements: | | | 3 Credits |
| | BIT 1010 | Building Codes (Recommended for students interested in commercial construction) (3.0) | 3 |
| or | BIT 1020 | Residential Codes (Recommended for students interested in residential construction) (3.0) | |
| or | EGDT 2400 | Surveying Applications and Field Techniques II (Recommended for students interested in heavy civil/ highway construction) (3.0) | |

**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 Proficiency

### *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 | 3 |
| or | ENGH 1005 | Literacies and Composition Across Contexts (5) | |
| | MAT 1030 | Quantitative Reasoning | 3 |
| | 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.

## Woodworking Education, Certificate of Proficiency

### *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 1130 | Residential Cabinetry | 4 |
| | CAW 1150 | Design Drafting and Billing | 3 |
| | CAW 1170 | Finish Technology | 2 |
| | CAW 140R | Millwork Technology (1) | 4 |
| | 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.

## Cabinetry and Architectural Woodwork, Diploma

### *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 (1)[!] | 4 |
| | CAW 140R | Millwork Technology (1)[!] | 4 |
| | CAW 140R | Millwork Technology (1)[!] | 4 |
| | CAW 140R | Millwork Technology (1)[!] | 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 (1.0) | 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: |
|---|
| [1] Required 4 times |

## Construction Management, B.S.

### *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 | 3 |
| or | ENGH 1005 | Literacies and Composition Across Contexts (5) | |
| | ENGL 2010 | Intermediate Writing Academic Writing and Research | 3 |
| Complete one of the following: | | | 3 |
| | MAT 1030 | Quantitative Reasoning (3) | |
| | MAT 1035 | Quantitative Reasoning with Integrated Algebra (6) | |
| | STAT 1040 | Introduction to Statistics (3) | |
| | STAT 1045 | Introduction to Statistics with Algebra (5) | |
| | MATH 1050 | College Algebra (4) | |
| | MATH 1055 | College Algebra with Preliminaries (5) | |
| Complete one of the following: | | | 3 |
| | HIST 1700 | American Civilization (3) | |
| | HIST 1740 | US Economic History (3) | |
| | HIST 2700 | US History to 1877 (3) | |
| and | HIST 2710 | US History since 1877 (3) | |
| | POLS 1000 | American Heritage (3) | |
| | POLS 1100 | American National Government (3) | |
| Complete the following: | | | |

| | | | |
|---|---|---|---|
| | PHIL 2050 | Ethics and Values | 3 |
| | HLTH 1100 | Personal Health and Wellness (2) | |
| or | PES 1097 | Fitness for Life | 2 |
| Distribution Courses | | | |
| | Biology Distribution[1] | | 3 |
| | Humanities Distribution[2] | | 3 |
| | Social Science Distribution[3] | | 3 |
| | Physical Science Distribution[4] | | 3 |
| | Science (3rd) Distribution[5] | | 3 |
| | Fine Arts Distribution[6] | | |
| | | | 76 Credits |
| | CMGT 1010 | Introduction to Construction Management | 3 |
| | CMGT 1150 | Construction Safety | 2 |
| | CMGT 1190 | Concrete and Framing Lab | 3 |
| or | CMGT 1220 | Finishing Lab (3) | |
| or | CMGT 281R | Internship (1) (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 4500 | Senior Capstone | 3 |
| | CMGT 481R | Internship (1) (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 2010 | Financial Accounting (3) | |
| and | ACC 2020 | Managerial Accounting (3) | |
| Complete 21 credits from one of the following two specializations (A minimum of 5 credits must be upper division): | | | 21 |
| Heavy/Civil | | | |
| | 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) | |
| | CMGT 4010 | Construction Contracts (3) | |
| | CMGT 405G | Global Sustainability and the Built Environment (3) | |
| or | SURV 455G | Global Professional Ethics and Liabilities (3) | |
| | EGDT 1040 | Fundamentals of Technical Engineering Drawing (3) | |
| | EGDT 2400 | Surveying Applications and Field Techniques II (3) | |
| | EGDT 3500 | Advanced Civil Drafting and Design (3) | |
| Commercial/Residential | | | |
| | BIT 1010 | Building Codes (3) | |
| or | BIT 1020 | Residential Codes (3) | |
| | CMGT 3020 | Building Envelopes and Mechanical Systems (3) | |
| | CMGT 3160 | Building Information Modeling (3) | |
| | CMGT 4010 | Construction Contracts (3) | |
| or | LEGL 3140 | Real Estate Law (3) | |
| | CMGT 405G | Global Sustainability and the Built Environment (3) | |
| | EGDT 1020 | 3D Architectural 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.

| Footnote |
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| [1]See catalog for approved listings |
| [2]Highly Recommended: COMM 1020 and COMM 1025 |
| [3]Recommended: MGMT 2110 or COMM 2110 or FIN 1060. See catalog for approved listings |
| [4]Recommended: PHYS 1010 or PHSC 1000. See catalog for approved listings |
| [5]Recommended: GEO 1010 or ENVT 1110. See catalog for approved listings |
| [6]Highly Recommended: EGDT 1720. See catalog for approved listings |