

Construction Management, B.S.

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.

Program Requirements

Code	Title	Credit Hours
Total Credit Hours		120
General Education Requirements		35 Credits
ENGL 1010 or ENGL 1005	Introduction to Academic Writing CC Literacies and Composition Across Contexts CC	3
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 & HIST 2710	US History to 1877 AS and US History since 1877 AS (6)	
POLS 1000	American Heritage AS (3)	
POLS 1100	American National Government AS (3)	
Complete the following:		
PHIL 2050	Ethics and Values IH	3
HLTH 1100 or EXSC 1097	Personal Health and Wellness TE Fitness for Life TE	2
Distribution Courses:		
Biology Distribution ¹		3
Humanities Distribution ²		3
Social Sciences Distribution ³		3
Physical Science Distribution ⁴		3
Third Science Distribution ⁵		3
Fine Arts Distribution ⁶		3
Discipline Core Requirements		76 Credits
CMGT 1010	Introduction to Construction Management WE	3
CMGT 1150	Construction Safety	2
Complete one of the following:		3
CMGT 1190	Concrete and Framing Lab (3)	
CMGT 1220	Finishing Lab (3)	
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 or IM 2010	Construction Computer Applications 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
Complete one of the following:		3
CMGT 3060	Applied Statics and Strength of Materials (3)	
EGDT 2600 & EGDT 2610	Applied Structures I - Statics and Applied Structures II - Strength of Materials (6)	
CMGT 3080	Construction Financial Management	3
CMGT 405G	Global Sustainability and the Built Environment GI WE	3
CMGT 4010	Construction Contracts ⁷	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
Complete one of the following:		3
ACC 3000	Financial Managerial and Cost Accounting Concepts (3) (Highly recommended)	
ACC 2110 & ACC 2120	Principles of Accounting I and Principles of Accounting II (6)	
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 or SURV 3230	Principles of Hydrology in Construction Management (undefined) Construction and Route Surveys	
EGDT 3500	Advanced Civil Drafting and Design (3)	
Commercial/Residential		
BIT 1010 or BIT 1020	Building Codes (3) Residential Codes	
EGDT 1020	3D Architectural Modeling (3)	
CMGT 3020	Building Envelopes and Mechanical Systems (3)	
CMGT 3160	Building Information Modeling (3)	
CMGT 4020 or TECH 3400	Construction Project Management (3) (High Recommended) Project Management WE	
Elective Requirements		9
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		

Credits

1

See catalog for approved listings

2

Highly Recommended: COMM 1020 Public Speaking HH. See catalog for approved listings.

3

Recommended: COMM 2110 Interpersonal Communication SS or FIN 1060 Personal Finance SS. See catalog for approved listings.

4

Recommended: PHYS 1010 Elementary Physics PP or PHSC 1000 Survey of Physical Science PP. See catalog for approved listings.

5

Recommended: GEO 1010 Introduction to Geology PP or ENVT 1110 Introduction to Environmental Management PP. See catalog for approved listings.

6

Highly Recommended: EGDT 1720 Architectural Rendering FF. See catalog for approved listings.

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Students who have passed the state Real Estate exam may receive substitution credit. See advisor for more information.

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.

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 (<http://www.uvu.edu/wolverinetrack/>).

First Year

Semester 1		Credit Hours
ENGL 1010 or ENGH 1005	Introduction to Academic Writing CC or Literacies and Composition Across Contexts CC	3
Complete one of the following:		3
MAT 1030	Quantitative Reasoning QL	
MAT 1035	Quantitative Reasoning with Integrated Algebra QL	
STAT 1040	Introduction to Statistics QL	
STAT 1045	Introduction to Statistics with Algebra QL	
MATH 1050	College Algebra QL	
MATH 1055	College Algebra with Preliminaries QL	
MATH 1090	College Algebra for Business QL	
Fine Arts Distribution (EGDT 1720 recommended)		3
CMGT 1010	Introduction to Construction Management WE	3
CMGT 1150	Construction Safety	2
CMGT 289R	Construction Industry Seminar	0.5
Credit Hours		14.5
Semester 2		
ENGL 2010	Intermediate Academic Writing CC	3
Humanities Distribution (COMM 1020 recommended)		3
CMGT 1020	Construction Materials and Methods I	3
Complete one of the following:		3
CMGT 1190	Concrete and Framing Lab	
CMGT 1220	Finishing Lab	
CMGT 281R	Internship	

CMGT 2035 or IM 2010	Construction Computer Applications or Business Computer Proficiency	3
CMGT 289R	Construction Industry Seminar	0.5
EGDT 1600	Technical Math Algebra	3
Credit Hours		18.5
Second Year		
Semester 3		
Physical Science Distribution (PHYS 1010 or PHSC 1000 recommended)		3
CMGT 2010	Construction Materials and Methods II	3
EGDT 1610	Technical Math Geometry Trig	3
EGDT 1400	Surveying Applications and Field Techniques I	3
Heavy Civil Track (EGDT 1040) or Commercial/Residential Track (EGDT 1020)		3
Credit Hours		15
Semester 4		
Third Science Distribution (GEO 1010 or ENVT 1110 recommended)		3
Social-Behavioral Science Distribution (COMM 2010 or FIN 1060 recommended)		3
CMGT 2060	Construction Job Site Management	3
CMGT 2080	Principles of Construction Scheduling	3
Heavy Civil track (EGDT 2400) or Commercial/Residential track (BIT 1010 or BIT 1020)		3
Credit Hours		15
Third Year		
Semester 5		
Biological Distribution		3
CMGT 3010	Construction Materials Testing	3
CMGT 3030	Principles of Construction Estimating	3
CMGT 3060	Applied Statics and Strength of Materials	3
Complete one of the following:		3
ACC 3000	Financial Managerial and Cost Accounting Concepts	
ACC 2110 & ACC 2120	Principles of Accounting I and Principles of Accounting II	
Credit Hours		15
Semester 6		
American Institutions		3
CMGT 3080	Construction Financial Management	3
CMGT 405G	Global Sustainability and the Built Environment GI WE	3
LEGL 3000	Business Law	3
Heavy/Civil Track (CMGT 3050) or Commercial/Residential Track (CMGT 3020)		3
Credit Hours		15
Fourth Year		
Semester 7		
PHIL 2050 or PHIL 205G	Ethics and Values IH or Ethics and Values IH GI	3
HLTH 1100 or EXSC 1097	Personal Health and Wellness TE or Fitness for Life TE	2
CMGT 4010	Construction Contracts	3
CMGT 481R	Internship	1
Heavy/Civil Track (CMGT 3090 or SURV 3230) or Commercial/Residential Track (CMGT 3160)		3
Upper Division Elective (WSOB, TECH, CMGT, or EGDT course not already completed)		3
Credit Hours		15
Semester 8		
CMGT 4500	Senior Capstone	3
Heavy/Civil Track (EGDT 3500) or Commercial/Residential Track (CMGT 4020 or TECH 3400)		3
Upper Division Elective (WSOB, TECH, CMGT, or EGDT course not already completed)		3
Upper Division Elective (WSOB, TECH, CMGT, or EGDT course not already completed)		3
Credit Hours		12
Total Credit Hours		120

Program Learning Outcomes

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.