

Parson Construction Management Technology

Department Chair: Steven Peterson

Location: Engineering Technology Building, Room 236

Telephone Contact: Andrea Stuart 801-626-7761

Email: ParsonCMT@weber.edu

Professor: Steven Peterson; **Associate Professor:** Chris Soelberg; **Assistant Professors:** Kristen Park, Joseph Wolfe; **Instructor:** Pieter van der Have

The Parson Construction Management Technology program teaches the processes, procedures and management techniques necessary to function as a "Professional Constructor" as defined by the American Institute of Constructors and the American Council of Construction Education (ACCE). It is designed to prepare students for immediate professional level employment or further study by developing a cohesive, solid technical foundation bolstered by practical, hands-on experiences, at the same time providing the education necessary for lifelong learning in a changing world. The process of learning is emphasized, as well as accumulation of knowledge. The multi-disciplinary curriculum is composed of courses in the areas of construction science, construction practice, business, and management as well as general education. The program is accredited by the American Council of Construction Education (ACCE).

The Construction Management Program—Facilities Management Emphasis prepares graduates to manage and maintain the physical facilities for companies. Facilities managers are responsible for managing and overseeing building and physical plant maintenance, grounds upkeep, custodial services, recycling and waste management, the design and construction of new facilities, and the remodeling of existing facilities.

The Parson Construction Management Technology curriculum is a "2+2" design facilitating articulation with programs in architecture, commercial building construction, design graphics, facilities and other construction-related degrees. In this regard, articulation agreements have been developed with Salt Lake Community College's Associate's Degree program in Architectural Technology. The partnership between the two schools gives construction management students more flexibility in earning WSU bachelor's degrees through the University Center at SLCC.

Construction Management Emphasis, Construction Management Technology (BS)

- **Program Prerequisite:** Declare a Program of Study in Construction Management Technology CMT
- **Minor:** Not required, Business minor is recommended.
- **Grade Requirements:** A grade of "C" or better in all major courses, business courses, and support courses is required (a grade of "C-" is not acceptable) in addition to an overall GPA for all courses of 2.00 or higher. Also refer to the general grade requirements for graduation under Degree and General Education Requirements.

- **Credit Hour Requirements:** A total of ~~126-124~~ credit hours is required for graduation. A total of 40 upper division credit hours is required (courses numbered 3000 and above).
- **Work Experience Requirements:** A total of 800 hours of approved work experience is also required for graduation. There are provisions to recognize those with significant construction industry experience. Contact Karen Doutre at Career Services/College of Applied Science & Technology; Phone: 801-626-6877 (ksdoutre@weber.edu) for possible internships.
- **Assessment Requirements:** The students will be required to take Associate Constructor (AC) exam administered by American Institute of Constructors (AIC). A minimum score of 192 out of 300 (64 percent) is required for graduation. The exam may be retaken if needed.

Advisement

All Construction Management Technology students are encouraged to meet with a faculty advisor at the beginning of their freshman, ~~and junior, and senior~~ years for course and program advisement. Call the CMT program secretary at 801-626-7761 to schedule an appointment. (Also refer to the Department Advisor Referral List).

Admission Requirements

Declare your program of study (see Enrollment Services and Information). There are no special admission or application requirements for this program.

General Education

Refer to Degree and General Education Requirements for Bachelor of Science requirements. Consult with an academic advisor for specific general education guidelines. The following courses required for the Construction Management Technology–Construction Management Emphasis BS degree will also fulfill general education requirements: COMM 1020 / COMM 2110 (Humanities), MATH 1080 (Quantitative Literacy), ECON 2010 (Social Science), ~~and~~ PHYS 2010 (Physical Science), GEO 1060 (Physical Science), and BTNY 1403 (Life Science). ~~Computer and Information Literacy as defined in this catalog is also required.~~

Major Course Requirements for BS Degree

Course requirements are subject to change. Check with program advisor for current requirements.

Construction Management Technology Courses Required (61 credit hours)

- CMT 1100 - Construction Management Orientation (1)
- CMT 1150 - Construction Graphics (3)
- CMT 1210 - Residential Construction Materials and Methods (3)
- CMT 1310 - Commercial Construction Materials & Methods (3)
- CMT 1500 - Computer Applications in Construction (3)
- CMT 2220 - Construction Contracts and Specifications (3)
- CMT 2330 - Concrete Technology (3)

- CMT 2340 - Construction Surveying (2)
- CMT 2360 - Building Codes and Inspection (2)
- CMT 2640 - Architectural Estimating (2)
- CMT 2880 - Internship (3)
- CMT 3115 - Construction Cost Estimating (3)
- CMT 3130 - Construction Planning & Scheduling (3)
- CMT 3210 - Construction Management (3)
- CMT 3260 - Mechanical and Electrical Systems (4)
- CMT 3350 - Applied Structures (4)
- CMT 4120 - Construction Accounting and Finance (3)
- CMT 4150 - Construction Equipment and Methods (3)
- CMT 4350 - Design of Construction Systems (2)
- CMT 4550 - Construction Safety (2)
- CMT 4610 - Senior Experience (2)
- CMT 4620 - Senior Project (2)
- CMT 4890 - Practicum (2)
- CMT 4899 - BS Graduation Assessment and Signoff (0)

Business Courses Required (21 credit hours)

- ACTG 2010 - Survey of Accounting I (3)
- ECON 2010 SS - Principles of Microeconomics (3)
- BSAD 3200 - Legal Environment of Business (3)
- MGMT 3010 - Organizational Behavior and Management (3)
- QUAN 2600 – Business Statistics I (3)
- MKTG 3010 - Marketing Concepts and Practices (3)
- Approved Business Electives from list below (9)

Approved Business Elective Courses

Select 9-3 hours from the following recommended courses (6 hours must be upper division):

- ECON 2020 SS - Principles of Macroeconomics (3)
- ECON 3400 - Labor Economics (3)
- BSAD 3000 - Small Business Management (3)
- BSAD 3330 - Business Ethics & Environmental Responsibility (3)
- FIN 3200 - Financial Management (3)
- FIN 3400 - Real Estate Principles and Practices (3)
- ~~MKTG 3010 - Marketing Concepts and Practices (3)~~
- MGMT 3300 - Human Resource Management (3)
- SST 3563 - Principles of Sales Supervision (3)
- ~~SST 3702 - Developing Team Leadership Skills (2)~~
- Advisor Approved Elective (3)

Note:

Students desiring a minor in Business Administration should receive approval of their program by the Business Administration Department Chair.

Support Courses Required (19-23 credit hours)

- COMM 1020 HU - Principles of Public Speaking (3) or
- COMM 2110 HU - Interpersonal & Small Group Communication (3)

- BTNY 1403 LS - Environment Appreciation (3-4) (3 credit hours required)
- GEO 1060 PS - Environmental Geosciences (3)
- GEO 1065 - Environmental Geosciences Lab (1)
- NTM 3250 - Business Communications (3)
- PHYS 2010 PS - College Physics I (5)
- MATH 1080 QL - Pre-calculus (5)

~~Course Requirements for CMT BS Major with Business Administration Minor for Non-Business Majors~~

See the Business Administration Minor for Non-Business Majors.

~~Additional courses required to satisfy business minor requirements with CMT BS degree~~

- ~~ECON 2020 SS - Principles of Macroeconomics (3)~~
- ~~(satisfied with CMT Business Elective)~~
- ~~QUAN 2600 - Business Statistics I (3)~~
- ~~QUAN 3610 - Business Statistics II (3)~~
- ~~Business Electives - Business/Management/Finance/Marketing Electives (6)~~
- ~~Check the college catalog under BSAD for possible selections.~~

Facilities Management Emphasis, Construction Management Technology (BS)

- **Program Prerequisite:** Declare a Program of Study in Construction Management Technology and declare your emphasis as Facilities Management~~CMT~~
- **Minor:** Not required.
- **Grade Requirements:** A grade of "C" or better in all major courses, business courses, and support courses is required (a grade of "C-" is not acceptable) in addition to an overall GPA for all courses of 2.00 or higher. Also refer to the general grade requirements for graduation under Degree and General Education Requirements.
- **Credit Hour Requirements:** A total of 126 credit hours is required for graduation. A total of 40 upper division credit hours is required (courses numbered 3000 and above).

Advisement

All Construction Management Technology students are encouraged to meet with a faculty advisor at the beginning of their freshman, junior, and senior years for course and program advisement. Call the CMT program secretary at 801-626-7761 to schedule an appointment. (Also refer to the Department Advisor Referral List).

Admission Requirements

Declare your program of study (see Enrollment Services and Information). No special admission or application requirements are needed for this program.

General Education

Refer to Degree and General Education Requirements for Bachelor of Science requirements. Consult with an academic advisor for specific general education guidelines. The following courses required for the Construction Management Technology—Facilities Management Emphasis BS degree will also fulfill general education requirements: COMM 1020 /COMM 2110 (Humanities), ARTH 1100 (Creative Arts), MATH 1080 (Quantitative Literacy), ECON 2010 (Social Science), PHYS 2010 (Physical Science), GEO 1060 (Physical Science), and BTNY 1403 (Life Science). ~~Computer and Information Literacy as defined in this catalog is also required.~~

Major Course Requirements for BS Degree

Course requirements are subject to change. Check with program advisor for current requirements.

Construction Management Technology Courses Required (63 credit hours)

- CMT 1100 - Construction Management Orientation (1)
- CMT 1150 - Construction Graphics (3)
- CMT 1210 - Residential Construction Materials and Methods (3)
- CMT 1310 - Commercial Construction Materials & Methods (3)
- CMT 1500 - Computer Applications in Construction (3)
- CMT 2220 - Construction Contracts and Specifications (3)
- CMT 2330 - Concrete Technology (3)
- CMT 2340 - Construction Surveying (2)
- CMT 2360 - Building Codes and Inspection (2)
- CMT 2640 - Architectural Estimating (2)
- CMT 2880 - Internship (3)
- CMT 3115 - Construction Cost Estimating (3)
- CMT 3130 - Construction Planning & Scheduling (3)
- CMT 3350 - Applied Structures (4)
- CMT 3510 - Building Mechanical & Electrical Systems (3)
- CMT 3540 - Facilities Management Administration (3)
- CMT 3630 - Environmental Issues in FM (3)
- CMT 3660 - Energy Management (3)
- CMT 3680 - FM Operations (3)

- CMT 4210 - Facility Planning and Layout (3)
- CMT 4270 - Computer Aided FM (3)
- CMT 4310 - Long-term Facility Planning (3)
- CMT 4550 - Construction Safety (2)
- CMT 4650 - FM Senior Project (2)
- CMT 4899 - BS Graduation Assessment and Signoff (0)

Business Courses Required (12 credit hours)

- ACTG 2010 - Survey of Accounting I (3)
- BSAD 3200 - Legal Environment of Business (3)
- ECON 2010 SS - Principles of Microeconomics (3)
- MGMT 3010 - Organizational Behavior and Management (3)

Support Courses Required (29 credit hours)

- ~~ARTH 1100 CA - Art and Architecture of the World: AD 1000-Present (4)~~
- BTNY 1403 LS - Environment Appreciation (3-4) (3 credit hours required)
- COMM 1020 HU - Principles of Public Speaking (3) or
- COMM 2110 HU - Interpersonal & Small Group Communication (3)
- ~~DET 1340 - Architectural Board Drafting for Interior Design (3)~~
- DET 1250 - Fundamentals of Architecture Drafting Using 2D CAD (3)
- GEO 1060 PS - Environmental Geosciences (3)
- GEO 1065 - Environmental Geosciences Lab (1)
- NTM 3250 - Business Communications (3)
- MATH 1080 QL - Pre-calculus (5)
- PHYS 2010 PS - College Physics I (5)
- SST 3563 - Principles of Sales Supervision (3)

Construction Management Technology (AAS)

- **Grade Requirements:** A grade of "C" or better in all major courses, business management courses, and support courses is required (a grade of "C-" is not acceptable) in addition to an overall GPA for all courses of 2.00 or higher. Also refer to the general grade requirements for graduation under Degree and General Education Requirements.
- **Credit Hour Requirements:** ~~63-64~~ total credit hours are required. A minimum of 20 hours in residence at WSU is required. A student must also complete a minimum of 18 hours of CMT major courses at WSU to obtain an AAS degree.

Advisement

All Construction Management Technology students are encouraged to meet with a faculty advisor at the beginning of their freshman and sophomore years for course and program advisement. Call the CMT program secretary at 801-626-7761 to schedule an appointment.

Admission Requirements

Declare your program of study (see Enrollment Services and Information). There are no special admission or application requirements for this program. (Also refer to the Department Advisor Referral List.)

General Education

Refer to Degree and General Education Requirements for Associate of Applied Science requirements. The following courses required for the Construction Management Technology AAS degree will also fulfill general education requirements: COMM 1020 / COMM 2110 (Humanities), MATH 1080 (Quantitative Literacy), ECON 2010 (Social Science), PHYS 2010 (Physical Science), GEO 1060 (Physical Science), and NTM 1700 and LIBS 1704 (Computer Information Literacy)~~COMM 2110 (Humanities), ECON 2010 (Social Science) and MATH 1080 (Quantitative Literacy)~~. Computer and Information Literacy as defined in this catalog is also required for the AAS degree.

Major Course Requirements for AAS Degree

Construction Management Technology Courses Required (28 credit hours)

- CMT 1100 - Construction Management Orientation (1)
- CMT 1150 - Construction Graphics (3)
- CMT 1210 - Residential Construction Materials and Methods (3)
- CMT 1310 - Commercial Construction Materials & Methods (3)
- CMT 1500 - Computer Applications in Construction (3)
- CMT 2220 - Construction Contracts and Specifications (3)
- CMT 2330 - Concrete Technology (3)
- CMT 2340 - Construction Surveying (2)
- CMT 2360 - Building Codes and Inspection (2)
- CMT 2640 - Architectural Estimating (2)
- CMT 2880 - Internship (3)
- CMT 2899 - AAS Graduation Assessment and Signoff (0)
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- ~~DET 1340 - Architectural Board Drafting for Interior Design (3) for students pursuing a Construction Management Technology - Facilities Management Emphasis BS degree~~

Business & Management Courses Required (9 credit hours)

- ACTG 2010 - Survey of Accounting I (3)
- ECON 2010 SS - Principles of Microeconomics (3)
- BSAD 3200 - Legal Environment of Business (3)

Support Courses Required (20-27 credit hours)

- COMM 2110 HU - Interpersonal & Small Group Communication (3)
- MATH 1080 QL - Pre-calculus (5)
- NTM 1700 TE - Introduction to Microcomputer Applications (3)
- LIBS 1704 TD - Information Navigator (1)
- ENGL 2010 - Intermediate College Writing (3)
- PHYS 2010 PS - College Physics I (5)
- GEO 1060 PS - Environmental Geosciences (3)
- GEO 1050 - Environmental Geosciences Lab (1)
- NTM 3250 - Business Communications (3)

Courses Changes

CMT 2899 - AAS Graduation Assessment and Signoff

(0) Su, F, Sp

This course includes final assessment (e.g., exit interviews) and signoff needed for graduation with an AAS degree from the program. Contact your advisor during your last semester before graduation to complete this requirement.

CMT 4899 - BS Graduation Assessment and Signoff

(0) Su, F, Sp

This course includes final assessment (e.g., exit interviews) and signoff needed for graduation with an BS degree from the program. Contact your advisor during your last semester before graduation to complete this requirement.

CMT 5100 - Civil Engineering and Architecture

(5)

CEA is designed to help students understand the fields and career possibilities in civil engineering and architecture. Students gain an understanding of the process of developing land into a viable building as they explore the role and skills used by architects and civil engineers during the process of planning a site and designing a building. The course meets for a total of 75 hours over a two-week period and focuses on the content as well as teaching methods appropriate for the course. This course is designed specifically and only for current high school teachers who have been assigned by their schools and districts to teach the Project Lead the Way courses. This course carries graduate credit for those teachers who would use it for recertification.