

BSc. Construction Project Management

Program Outline: 2013-2016

Bachelor of Science — Construction Project Management

- Four-year baccalaureate degree
- Fall start
- E-Learning

Contact Us

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Program Description

The Bachelor of Science in Construction Project Management provides graduates with structured management and leadership techniques, further providing the basis for broader management decisions as well as on-site leadership in construction operations. The program prepares you for leadership roles in the construction industry. It consists of a combination of core courses, specialty courses and general education courses.

As a Construction Project Manager you will ultimately be responsible for every aspect of a client's project including planning, scheduling, managing equipment and materials, budgeting, staff management, procurement, risk analysis, or a combination of any of these.

This degree program is four years in length, consisting of eight 15-week semesters.

This program accepts students into first semester in September.

Note: This program utilizes an e-Learning (SAIT issued laptop computer) instructional delivery method.

Program Overview

Your Career

Graduates participate in construction project management, facilities management, and infrastructure development both locally and globally.

Graduates also pursue graduate-level credentials in the construction project management domain.

Numerous career paths exist for graduates of the BSc CPM. Some examples of typical entry level opportunities for graduates include the following:

- Assistant Construction Manager
- Assistant Project Manager
- Site Supervisor
- Construction Inspector
- Project Coordinator
- Project Document Controller
- Assistant Project Coordinator
- Project Assistant
- Assistant Site Supervisor
- Junior Estimator
- Junior Contract Administrator
- Assistant Facilities Manager

There are also opportunities for graduates of BSc CPM to pursue a variety of self-employment opportunities such as: consulting, general contracting, small businesses, or other entrepreneurial ventures.

Student Success

Students with higher grades usually experience more success in SAIT's programs. There is a direct correlation between the time and energy invested in studies to the success achieved.

Note: Course difficulty levels are higher for a degree program than they are for a diploma program.

Credentials and Accreditation

Upon successful completion of this program, graduates will receive a SAIT Bachelor of Science in Construction Project Management baccalaureate degree.

The Bachelor of Science in Construction Project Management program has received full accreditation from the Canadian Institute of Quantity Surveyors (CIQS), a self-regulatory, professional body that sets the highest standard for construction economics in Canada. It is the first program in Alberta to be accredited by CIQS.

The School of Construction is also seeking accreditation for the BSc CPM Program from three related accreditation bodies:

- The Project Management Institute Global Accreditation Center (PMIGAC). This is the only specialized international accrediting body that assures the quality of Project Management degree programs at the graduate and undergraduate levels.
- The Gold Seal program by the Canadian Construction Association (CCA) is a national certification program that recognizes construction management excellence, based on education, experience and examination. CCA Gold Seal and PMI-GAC accreditation for the BSc CPM will be diligently sought in the coming years.
- The Chartered Institute of Building (CIOB) an international body that enables members who wish to enter a management career in construction.

Progression

Students must attain a PGPA and/or a CGPA of 2.0 or better in each semester and pass the necessary prerequisite courses to progress through the program. To qualify for graduation, students must pass all courses, attain a CGPA of 2.0 or better and complete course requirements within the prescribed timelines.

Admission and Selection

- Fall 2016 start: applications are accepted Oct. 21, 2015 to Sept. 16, 2016.

Admission Requirements

An overall minimum average of 70% in the following courses or equivalents:

- Math 30-1 or Pure Math 30, AND,
- English Language Arts 30-1, AND,
- Two courses from Group A, AND,
- One course from Group A or B.

Group A (Academics)	Group B (Other) (5 credits)
Mathematics 31	Art 30 or 31
Biology 30	Drama 30
Chemistry 30	Music 30 (choral, instrumental, general)
Physics 30	Physical Education 30
Science 30	Religion 35
	Social Studies 30-1
	Social Studies 30-2
	One language 30
	Other five-credit grade 12 subjects or a combination of two three-credit grade 12 subjects
	Five credits of advanced career and technology courses

All applicants must demonstrate English Language Proficiency prior to admission, including students educated in Canada.

Competitive Entry: Five Step Process

Step 1: Ensure that you meet all of the admission requirements listed above.

Step 2: This is a competitive program and we receive more qualified applications than available seats in the program. It is important to review the selection information below to understand the process and deadlines.

- Applications for fall 2016 are accepted Oct. 21, 2015 to Sept. 16, 2016.
- Applications received after April 29 will be placed on a secondary waitlist and applicants will be contacted if seats become available.
- The competitive entry/selection process is done on a continuous basis starting in November.

In the selection process, applicants will be assessed according to the following criteria and seats will be offered accordingly.

- Academic Achievement
- Quality of the Career Investigation Report
- Quality of the personal interview (applicants may be required to attend a personal interview to determine program fit)

Once the program is full, applicants will be placed on a waitlist in order of their ranking.

Step 3: Apply to the Bachelor of Science Construction Project Management program. You will be required to submit your transcripts and/or anticipated final grades at this time in order to be included in the competitive entry/selection process.

Step 4: Log in to mySAIT to check your admission status. If your status indicates you're "In Selection," you will be contacted to complete the Career Investigation Report and submit it according to the instructions.

- Applicants who fail to complete the Career Investigation Report within the timelines listed on the document will be excluded from selection.
- You will be contacted by the program directly if you will be required to attend a personal interview.

Step 5: Continue to monitor changes to your application decision through mySAIT.ca.

This program requires a review of courses for which anticipated final grades were submitted. A transcript for courses completed in January must be submitted by March 11. You will be contacted by the program directly with a request for these transcripts. These transcripts will then be forwarded to the Admissions office in SAIT Student Services.

Failure to meet anticipated final grades will result in offers being rescinded.

Communication During Selection

Email is the primary source of communication during the selection process. Ensure your personal email account is managed appropriately to receive our emails, files and communications.

Due to the significant number of applications for this program, the selection process can take some time. Every effort will be made to maintain the timelines outlined above. We appreciate your patience.

Unfortunately, due to the extremely large volume of applicants, we do not provide assistance or follow-up as to why a particular candidate was not competitive.

Program Completion

- Students starting in a degree program after July 1, 2015, have 10 years to complete the credential requirements.
- Students who started the program prior to July 1, 2015, are under the previous policy and will have 7 years to complete the credential requirements.
- The time limitation begins on the date the student started the first course in the credential.
- For more information, refer to AC 3.1.1 – Grading and Progression Procedure.

Costs and Supplies

Tuition and Fees (Subject to change)

- Please refer to the **Tuition and Fee Table**.
- International students, please refer to **International Student Fees**.
- For student funding, please refer to **Financial Assistance**.

Books and Supplies (Subject to change)

- Books and Supplies are approximately \$1,000 – \$1,500 per full-time year.
- A \$400 security deposit to use a SAIT issued laptop.

Program Outline

First Year

Semester 1

▪ CIVL 1010 – Introduction to Construction	3 credits
▪ MATH 1010 – Technical Mathematics I	3 credits
▪ PHYS 1011 – Introductory Physics	3 credits
▪ Plus one Communications Elective	3 credits
▪ Plus one Science Elective	3 credits

Semester 2

▪ ARCH 1020 – Construction Presentation Graphics	3 credits
▪ SURV 1010 – Construction Surveying	3 credits
▪ CIVL 1110 – Materials and Methods of Construction	3 credits
▪ SMTL 1010 – Statics and Strength of Materials	3 credits
▪ MATH 1110 – Technical Mathematics II	3 credits

Second Year

Semester 3

▪ CIVL 2020 – Building Structures I	3 credits
▪ ESTM 2010 – Project Cost Estimation	3 credits
▪ CIVL 2110 – Project Delivery Systems	3 credits
▪ CPMT 2010 – Project Planning and Scheduling	3 credits
▪ Plus one Law Elective	3 credits

Semester 4

▪ CODE 3010 – Building Codes and Specifications	3 credits
▪ CIVL 3120 – Building Structures II	3 credits
▪ CPMT 3130 – Cost Planning and Control	3 credits
▪ CIVL 3130 – Mechanical and Electrical Systems	3 credits
▪ CIVL 2120 – Soil Mechanics and Foundations	3 credits

Third Year

Semester 5

▪ CLAW 3010 – Construction Law	3 credits
▪ CPMT 2020 – Introduction to Construction Project Management	3 credits
▪ CPMT 3110 – Construction Equipment and Methods	3 credits
▪ PHYS 1110 – Physics II	3 credits
▪ STAT 3110 – Statistics for Science and Engineering	3 credits

Semester 6

▪ MGMT 3010 – Business Skills and Processes	3 credits
▪ CPMT 3030 – Construction Contracts and Procurement Management	3 credits
▪ CPMT 4130 – Construction Safety Management	3 credits
▪ CIVL 3310 – Total Building Performance	3 credits
Plus one Social Science Elective	3 credits

Internship

▪ ITRN 4000 – Internship	3 credits
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Fourth Year

Semester 7

▪ ENV5 3010 – Environmental Issues in Construction	3 credits
▪ CPMT 4110 – Project Organization and Supervision	3 credits
▪ CIVL 4010 – Real Estate Principles and Construction Finance	3 credits
▪ CPMT 4060 – Scope and Design Management	3 credits
▪ Plus one Technical Elective	3 credits

Semester 8

▪ CPMT 4990 – Capstone Project credits	
▪ CPMT 4310 – E-Project Management	3 credits
▪ CPMT 4070 – International Construction Project Management	3 credits
▪ Plus one Humanities Elective	3 credits
▪ Plus one Technical Elective	3 credits

Communications Electives

Students choose one (1) of the following electives

▪ COMM 1030 – Business Communications	3 credits
▪ ENGL 1010 – Critical Reading and Writing	3 credits

Humanities Electives

Students choose one (1) of the following electives

▪ PHIL 1011 – Critical Thinking	3 credits
▪ PHIL 3010 – Ethics	3 credits
▪ PHIL 1030 – Ethics in Technology	3 credits
▪ ARCH 1010 – History of Architecture	3 credits
▪ HUMN 2010 – Introduction to Humanities	3 credits
▪ PHIL 1040 – Introduction to Philosophy	3 credits
▪ PHIL 1020 – Symbolic Logic	3 credits

Law Electives

Students choose one (1) of the following electives

▪ BLAW 2030 – Business Law	3 credits
▪ CLAW 1010 – Canadian and Environmental Law	3 credits

Social Science Electives

Students choose one (1) of the following electives

▪ PSYC 1010 – Introduction to Psychology	3 credits
▪ SOCI 2010 – Introduction to Sociology	3 credits
▪ ECON 1110 – Macroeconomics	3 credits
▪ ECON 1010 – Microeconomics	3 credits
▪ STAT 4010 – Research Methodologies	3 credits
▪ SOCI 3060 – Technology and Society	3 credits

Technical Electives

Students choose two (2) of the following electives

▪ CIVL 3110 – Construction Productivity	3 credits
▪ CPMT 3120 – Construction Project Admin and Marketing	3 credits
▪ CPMT 4040 – Facilities Planning and Management	3 credits
▪ CPMT 3040 – Human Resource Management	3 credits
▪ CPMT 4020 – Maintainability of Facilities	3 credits
▪ CPMT 3060 – Project Risk and Conflict Management	3 credits
▪ CPMT 4030 – Strategic Facilities Management	3 credits
▪ CPMT 4050 – Utilities Management	3 credits
▪ CIVL 4110 – Value Engineering	3 credits
▪ CPMT 3050 – Quality Management	3 credits

Science Electives

Students choose one (1) of the following electives

▪ CPNT 1010 – Internetworking Fundamentals	3 credits
▪ CMPP 1010 – Introduction to Programming	3 credits
Total Credits	123

Transfer Options

Graduates of this program are eligible to continue on to graduate studies at a variety of institutions. Contact transfer.options@sait.ca for additional information.