

Graduate Program Change Proposal

Form Procedure

To share the form with others prior to Submitting choose the **Save Progress** option at the bottom.

Create a **PDF** of the saved form go to Print and choose Save as PDF copy rather than print.

To access the saved form for editing or to finalize submission visit forms.fitchburgstate.edu to log in and view your Pending/Drafts under My Forms.

Department/Committee Information

The main contact person for the Graduate Curriculum Committee should fill out this form.

Requestor Name: * Members of the Graduate Curriculum Committee: Department / Unit Developing: * Department Chair: * * Academic Dean : Program Chair The Program Chair for this request is among the people listed above.
* Yes
 No

Program Information

This proposal refers to a (check all that apply): Certificate Program Teacher Licensure Program Degree ProgramDoes the program run on a cohort model? Yes No Will additional faculty be needed, day/adjunct? Yes No

Briefly describe program change to the existing program as it will appear in university catalog:

Existing Plan of study on Catalog for MS in Construction Management Program
Advanced Curriculum Requirements for M.S. in Construction Management

Plan 1: Thesis Option (30 credits)

- Core Curriculum: 6 courses (21 credits)
- CMGT 7000 Construction Cost Analysis & Estimating
- CMGT 7100 Construction Scheduling & Resource Optimization
- CMGT 8000 Improvement in Productivity in Construction
- CMGT 8100 Building Information Modeling Applications in CM
- CMGT 8200 Research Methodology for CM
- CMGT 9000 Construction Management Thesis
- Suggested Elective Courses: 3 courses (9 Credits)

Plan 2: Special Project Option (30 credits)

- Core Curriculum: 6 courses (18 credits)
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- CMGT 7100 Construction Scheduling & Resource Optimization
- CMGT 8000 Improvement in Productivity in Construction
- CMGT 8100 Building Information Modeling Applications in CM
- CMGT 8200 Research Methodology for CM
- CMGT 9100 Special Project in Construction Management
- Suggested Elective Courses: 4 courses (12 credits)

Elective course will be suggested by program chair as per students' interests.

Courses

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Plan 3: Course Option (30 credits)

- Core Curriculum: 5 courses (15 credits)
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Population/anticipated enrollment/staffing plan (i.e., Who/how many will program serve?)

The MS in Construction Management program currently serves graduate students pursuing advanced technical expertise, leadership, and research competencies through two established pathways: the Thesis Option and the Special Project Option. The addition of the third pathway, the Course Option, is designed to expand program accessibility while maintaining academic rigor and quality.

Population served: The new "Course Option" specifically addresses the needs of students who:

- Prefer structured coursework instead of thesis research or applied project development.
- Seek faster degree completion aligned with professional advancement.
- Intend to enhance technical and managerial competencies without a research commitment.
- Plan to pursue industry leadership roles rather than doctoral study.

Students will select one of the suggested elective courses in lieu of completing a Thesis or Special Project, ensuring academic flexibility while preserving program depth and graduate-level expectations.

Anticipated Enrollment: Based on historical enrollment patterns and industry demand trends, the addition of the Course Option is expected to:

- Increase overall enrollment
- Improve retention rates by offering a flexible completion pathway.
- Attract working professionals who may otherwise not enroll due to thesis or project requirements.
- Support stable annual cohort sizes across all three options.

Staffing Plan: The addition of the "Course Option" does not require new faculty positions. The program will leverage:

- Existing graduate faculty
- Currently offered elective courses within faculty teaching loads.
- Rotational scheduling of electives based on demand.
- Strategic use of adjunct or industry professionals if enrollment increases beyond projects.

The program has sufficient resources and administrative support to implement the third pathway without additional infrastructure investment.

Rationale and expected outcomes for program change:

Rationale: The addition of the "Course Option" to the MS in Construction Management program is a strategic enhancement designed to increase flexibility, accessibility, and responsiveness to evolving student and industry needs. While the existing Thesis and Special Project options provide strong pathways for research-oriented and applied professional experiences, some students seek an academically rigorous yet course-focused completion pathway aligned with immediate career advancement.

This pathway is particularly beneficial for:

- Working professionals balancing academic and professional responsibilities.
- Industry practitioners seeking technical depth without research commitments.
- International students with time-sensitive program goals.
- Students focused on leadership, operations, and industry practice rather than research.

Expected outcomes:

The implementation of the "Course Option" is expected to yield the following outcomes:

1. Increase enrollment and retention
2. Enhance program flexibility
3. Improve industry alignment
4. Broader student access

How does this change affect the departments Learning Outcomes for the program? List any changes that need to be made.

This addition of "Course Option" does not alter the program's core learning outcomes, rather, it provides an alternative mechanism for achieving them while accommodating diverse academic goals and career trajectories.

Implementation plan (what semester will new policy/policy change begin; will change be phased in)

Fall 2026

An old and new plan of study must be included with this proposal (Please use template for program revision).

If new courses are proposed or major changes are made to existing courses, submit a Graduate Council New Course Approval form.

Old Plan of Study Attached here.

New Plan of Study Attached here

Catalog_Changes_MSCM_program.odt

Attach any letter(s) of support from professional agencies or others within or outside the university.

Signatures

* ...3937323231

Nirajan Mouri

03/13/2026

Requester Signature:

Date

* ...3132353334

Mahmoud Al-Odeh

03/16/2026

Academic Dean Signature:

Date

Nirajan Mani

03/13/2026

Department Chair Approval:

Date

Bucky Cupp
SGOCE Dean Signature:

4/13/26

Date

Graduate Council

The Graduate Council Chair Signature indicates that the Council has discussed this proposal and has decided it should move forward.

Graduate Council Chair Signature

Date

Notifications

Approval of the President

Date

SGOCE Dean Initials

Date

Reviewed by the Registrar:

Date

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MS in Construction Management (Option I: Thesis Option)
 (Plan of Study I: Thesis Option)

Major Required (Core) Courses (Total # of courses required = 6)		
Course Number	Course Title	Credit Hours
CMGT 7000	Construction Cost Analysis & Estimating	3
CMGT 7100	Construction Scheduling & Resource Optimization	3
CMGT 8000	Improvement in Construction Productivity	3
CMGT 8100	Building Information Modeling Application in CM	3
CMGT 8200	Research Methodology for CM	3
CMGT 9000	Construction Management Thesis	6
	Sub-total # Core Credits Required	21
Elective Course Choices (Total courses required = 3) (attach list of choices if needed)		
CMGT 7200	Construction Safety	3
CMGT 7300	Construction Law & Contracts	3
CMGT 7XXX	Emerging Materials & Technologies	3
CMGT 8300	Construction Engineering Management	3
CMGT 8500	Temporary Structures	3
CMGT 8400	Modular Construction	3
CMGT 9200	Risk Management	3
	Sub-total # Elective Credits Required	9

MS in Construction Management (Option II: Special Project Option)
 (Plan of Study II: Special Project Option)

Major Required (Core) Courses (Total # of courses required = 6)		
Course Number	Course Title	Credit Hours
CMGT 7000	Construction Cost Analysis & Estimating	3
CMGT 7100	Construction Scheduling & Resource Optimization	3
CMGT 8000	Improvement in Construction Productivity	3
CMGT 8100	Building Information Modeling Application in CM	3
CMGT 8200	Research Methodology for CM	3
CMGT 9100	Special Project in CM	3
	Sub-total # Core Credits Required	18
Elective Course Choices (Total courses required = 4) (attach list of choices if needed)		
CMGT 7200	Construction Safety	3
CMGT 7300	Construction Law & Contracts	3
CMGT 7XXX	Emerging Materials & Technologies	3
CMGT 8300	Construction Engineering Management	3
CMGT 8500	Temporary Structures	3
CMGT 8400	Modular Construction	3
CMGT 9200	Risk Management	3
	Sub-total # Elective Credits Required	12

MS in Construction Management (Option III: Course Option)
(Plan of Study III: Course Option)

Major Required (Core) Courses (Total # of courses required = 6)		
Course Number	Course Title	Credit Hours
CMGT 7000	Construction Cost Analysis & Estimating	3
CMGT 7100	Construction Scheduling & Resource Optimization	3
CMGT 8000	Improvement in Construction Productivity	3
CMGT 8100	Building Information Modeling Application in CM	3
CMGT 8200	Research Methodology for CM	3
CMGT 8300	Construction Engineering Management	3
	Sub-total # Core Credits Required	18
Elective Course Choices (Total courses required = 4) (attach list of choices if needed)		
CMGT 7200	Construction Safety	3
CMGT 7300	Construction Law & Contracts	3
CMGT 7XXX	Emerging Materials & Technologies	3
CMGT 8500	Temporary Structures	3
CMGT 8400	Modular Construction	3
CMGT 9200	Risk Management	3
	Sub-total # Elective Credits Required	12



FITCHBURG STATE UNIVERSITY

School of Graduate Online and Continuing Education (SGOCE)
Department of Engineering Technology
MS in Construction Management Program
SYLLABUS
2026

Class Information:

Course: CMGT 8300 (Construction Engineering Management)
Credits: 3
Class Modality: Online
Class Start Date: TBD
Class End Date: TBD

Instructor Information:

Dr. Nirajan Mani
Office: CNIC 209A
Phone: 978-665-4843
Email: nmani@fitchburgstate.edu
Office Hours: By Appointment

Recommended Reference Books and Materials:

Project Management for Engineering and Construction (2nd ed.)
Author: Garold Oberlender
Publisher: McGraw-Hill
ISBN-13: 978-0070393608

Computer-Based Construction Project Management
Author: Tarek Hegazy
Publisher: Pearson
ISBN-13: 978-0130888594

Construction Planning and Scheduling (4th ed.)
Author: Tarek Hegazy
Publisher: Pearson
ISBN-13: 978-0132473989

RS Means Cost Guide

Supplementary Materials: Handout materials will be provided by instructor.

Catalog Description:

This course includes technical project management applications for pre-project planning, design, pre-construction services, value engineering, construction, startup/commissioning and decommissioning of capital facilities.

Prerequisite: *Construction Cost Analysis & Estimating (CMGT 7000) and Construction Scheduling & Resource Optimization (CMGT 7100)*

Required Skills: *Mandatory use of electronic spreadsheets, presentation graphics, and word processing.*

Course Objectives:

The Construction Engineering Management course is designed and structured to equip students with the required technical competencies and the necessary skill sets in managing construction and engineering projects, project delivery methods, construction planning, estimating, scheduling, resource management, life-cycle analysis, and construction project control processes. It is designed to provide capstone project experiences to students.

Students Learning Outcomes:

1. Evaluate concepts of managing construction and engineering projects
2. Determine construction project phases, in-depth concepts of estimating, bidding, scheduling, resource management, project financing, and construction project control processes.
3. Develop work plan, work package, work breakdown structure, cost breakdown structure, organization breakdown structure, etc.
4. Describe personal management skills.
5. Crash analysis of the schedule to complete projects on time.
6. Explain various methods of project financing.
7. Apply professional, ethical, and sustainable construction practices.
8. Develop professional communication skills.

Learning Outcomes Assessment:

Assessment tools for the above learning outcomes include homework & quizzes (outcomes: 1 to 7), exams (outcomes: 3, 4, 6), and project (2, 3, 7, 8).

Instructor Availability:

Instructor will be available during weekdays to respond your questions or concern via university email. Please contact instructor via university email if you have any questions or concern to avoid spam issue. However, this is an online class, we will use Google Meet / Hangouts for all student requested meetings.

Instructional Strategies:

The course will be conducted in an online format. This class may use lectures, demonstrations, self-guided study, group discussions, collaborative learning groups, and presentations to cover the topics in this course. PowerPoint presentations, computer applications, etc. may be utilized. Some independent learning is expected of the students; they should complete assigned readings prior to each class session and actively engage in discussions and activities to facilitate their understanding of classroom presentations. Every effort will be made to meet the individual needs and various learning styles of the course participants. It is most important that you inform the instructor at the beginning of the semester of any unique needs.

Course Topics:

The following topics will be covered in the course. The following listing is a general indication of the order of their coverage. However, faculty instructor reserves the right to change the order of coverage and the topics to be covered based upon the class’s performance and interests.

- Key concepts, purpose, types, and functions of project management
- Project team
- Project initiation
- Project delivery methods
- Early estimating and budgeting
- Project scheduling
- Resource management
- Project financing
- Time cost tradeoff
- Project controls
- Professional ethics
- Environmental Impact Assessment
- Project report

Grading System:

Range	Letter Grade	Quality Points
95 - 100	A	4.0
92 - 94	A-	3.7
89 - 91	A- / B+	3.5
86 - 88	B+	3.3
83 - 85	B	3.0
80 - 82	B-	2.7
77 - 79	B- / C+	2.5
74 - 76	C+	2.3
71 - 73	C	2.0
0 – 70	C-	0
Withdrawn		W
Incomplete		IN
In-Progress		IP
Audit		AU
Satisfactory		S
Unsatisfactory		U

** Grades that fall between intervals will be rounded to the higher number.*

Evaluation Criteria:

Discussion & Participation	35%
Quizzes	20%
Assignments	20%
Capstone Project	25%

** The instructor reserves the right and the responsibility for adjusting these items and their weights as necessary to meet specific situations as they may arise.*

Student Responsibilities and Class Requirements:

Each student is responsible for completing all course requirements and for keeping up with all activities of the course. Students are required to complete all assigned homework, quizzes, exams, and project work by the given deadline.

Policy on Assignments:

All assignments must be turned in on the blackboard on Sundays per the documented dates in the syllabus. Feedback to your submissions will be posted on the blackboard within 72 hours (96 hours for a class of 60 or more students) after the weekly submission due date and time. It means that if you chose to submit your assignment early, it will be graded at the scheduled time and not before. Work submitted after due date will receive a grade of zero. All assignments must conform to APA writing style and include a reference list (not a work cited or bibliography). Students with extenuating circumstances, such as a medical emergency or other emergencies must provide written proof of such event and report such events within 24 hours and make arrangement to complete assignments in a timely manner. Failure to do so will result in a penalty up to 50%. Make up examinations (if part of course) will only be offered at the discretion of the instructor.

Technology Initiatives:

Users of the Fitchburg State University computer systems are subject to all applicable federal, state, and international computer laws. Questions regarding regulations may be directed to the office of Information Technology Systems.

Students will utilize technology as:

- A research tool; (a means of discovering current trends and substantive research articles in education)
- A communication method
- An enhancement tool for the design of PowerPoint presentations (for recorded presentations-individual/group)

Fitchburg State University Library Online Services:

The Fitchburg State University Library online services may be accessed through the Fitchburg State University Homepage <https://library.fitchburgstate.edu/>. Students may access any of several full-text online databases. Passwords are available to students by calling 978.665.3063. Students may access the Fitchburg State University Career Service and Counseling Services Center via the college's homepage at <https://www.fitchburgstate.edu/student-support/career-support/career-resources>.

Disabilities Accommodation:

Students requiring course alterations or accommodations due to a disability or emergency medical condition, should inform instructor as soon as possible. You should also work with the Disability Services Office (978-665-4020). They will provide you with the forms needed to determine the accommodations that your situation merits.

University Academic Dishonesty Policy:

Fitchburg State University's policy on Academic Dishonesty will be enforced in this course. Please refer to the university catalog on this policy. Plagiarism and cheating are inexcusable. Any instance of plagiarism or cheating will result in lowered grade and possible failing the course.

Tentative Schedule:

Week	Weekly Activity	Assignments and Due Dates
Week 1 & 2 (Module 1)	Reading: Topic 1: Introduction to Construction Engineering Management Topic 2: Project Management Topic 3: Learning Curve	Introduction post: Due: TBD Discussion Participation: Due: TBD Quiz 1: Due: TBD
Week 3 & 4 (Module 2)	Topic 4: Project Initiations Topic 5: Project Delivery Methods Topic 6: Conceptual Estimating	Participation & Discussion: Due: TBD Assignment 1: Due: TBD Quiz 2: Due: TBD
Week 5 & 6 (Module 3)	Topic 7: Detailed Estimating using RS Means Cost Guide Topic 8: Project Budgeting	Participation & Discussion: Due: TBD Quiz 3: Due: TBD
Week 7 & 8 (Module 4)	Topic 9: Network Scheduling Analysis	Participation & Discussion: Due: TBD Assignment 2: Due: TBD Quiz 4: Due: TBD
Week 9 & 10 (Module 5)	Topic 10: Scheduling of Linear and Repetitive Projects	Participation & Discussion: Due: TBD Quiz 5: Due: TBD
Week 11 & 12 (Module 6)	Topic 11: Management of Engineering Projects with Limited Resources Topic 12: Project Financing and S-Curve	Participation & Discussion: Due: TBD Quiz 6: Due: TBD
Week 13 & 14 (Module 7)	Topic 13: Project Control – Integrated Cost/Schedule/Work Topic 14: Project Control – Earned Value Method Topic 15: Professional, Ethical, and Sustainable Construction Practices	Participation & Discussion: Due: TBD Quiz 7: Due: TBD
Week 15	Capstone Project Presentation and Report Submission	Capstone Project: Due: TBD

Note: The instructor reserves the right to modify this syllabus and schedule.

© Copyright: All course materials including the syllabus, PowerPoint Slides pdfs, assignments, discussion questions, and quizzes are protected by copyright. Please obtain permission from the instructor before using these materials.

References:

Shrestha, P. (2011). Construction Engineering and Management. University of Nevada-Las Vegas.

Construction Engineering and Management. The University of Alabama at Birmingham.