MS IN CONSTRUCTION MANAGEMENT

In Workflow

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Approval Path

1. 2026-10-02T20:01:07Z
   Gareth Figgess (figgess): Approved for CM Committee Chair
2. 2026-10-13T22:37:36Z
   Gareth Figgess (figgess): Approved for CM Chair
3. 2026-10-23T17:43:25Z
   Tongren Zhu (tongren.zhu): Approved for ECS College Committee Chair
4. 2026-10-23T17:47:04Z
   Behnam Arad (arad): Approved for ECS Dean

New Program Proposal

Date Submitted: 2026-10-01T22:36:52Z

Viewing: MS in Construction Management

Last edit: 2026-10-26T23:45:49Z

Changes proposed by: Atefeh Mohammadpour (223019524)

Academic Group: (College)

Engineering & Computer Science

Academic Organization: (Department)

Construction Management

Catalog Year Effective:

2027-2028 Catalog

NOTE: This degree major program will be subject to program review evaluation within six years after implementation.

Individual(s) primarily responsible for drafting the proposed degree major program:

Name (First Last)	Email	Phone 999-999-9999
Atefeh Mohammadpour	a.mohammadpour@csus.edu	(916) 278-7659

Academic Master Plan Projection

Has this degree been approved for inclusion in the Academic Master Plan?

Yes

Attach Projected Degree Proposal form:

MS Construciton Managemnt Projected Degree Proposal Form.pdf

New degree major proposals must receive prior approval for inclusion in the Academic Master Plan before a New Program proposal can be submitted to Workflow. Submissions to the AMP can be made through the Miscellaneous Request form.

Program Snapshot

Type of Program:

Major

Title of the Program:

MS in Construction Management

Designation: (degree terminology)

Master of Science

Delivery Mode:

Fully Face to Face
Hybrid

Support Mode:

State Support

Does this major plan to include any formal options, concentrations, or special emphases?

No

CIP Code:

15.1001

Please see the CSU/CIP Code Crosswalk: https://www.csus.edu/academic-affairs/curriculum-workflow/_internal/_documents/csu_codes_to_cip.pdf

TMC Templates: https://c-idsystem.org/transfer-efforts/

Is this a pilot program?

No

Establishment of a master's degree program should be preceded by a national professional accreditation of the corresponding bachelor's degree major program.

Will this program require accreditation?

Yes

Anticipated date of accreditation request:

2030

Provision for meeting specialized accreditation requirements, where applicable:

The program will operate under Sacramento State's institutional accreditation through the WASC Senior College and University Commission (WSCUC) and applicable CSU and university graduate-program requirements. The department intends to pursue American Council for Construction Education (ACCE) accreditation in the future, subject to ACCE eligibility requirements and university approval. Accordingly, the curriculum, student learning outcomes, faculty qualifications, assessment processes, and continuous-improvement practices will be developed with applicable ACCE standards in mind.

Provide a clear, concise overview of the program proposal (new or change) and provide a justification. For NEW programs describe the purpose and focus of the program, identify the target student population(s), and highlight key strengths and distinguishing features of the program.

The MS in Construction Management is an advanced, professionally oriented program designed to prepare construction professionals for increased responsibility in project leadership, organizational management, innovation, and strategic decision-making.

The curriculum addresses emerging and essential areas of construction management, including sustainable construction, advanced safety management, artificial intelligence and automation, prefabrication and industrialized construction, construction accounting, organizational behavior, leadership, negotiation, and relationship management.

The program will serve recent graduates from construction management, civil engineering, architectural engineering, architecture, and related disciplines, as well as practicing construction, engineering and architecture professionals seeking advanced technical knowledge, leadership development, and career advancement. Its flexible and practice-oriented structure will provide working professionals in the Sacramento region with an opportunity to earn a graduate degree while remaining employed and connected to the local construction industry.

The program is justified by the absence of a dedicated master's degree in construction management in the Sacramento region, despite the area's extensive construction, infrastructure, transportation, public-sector, commercial, and residential development activity. Although Sacramento State offers a bachelor's degree in construction management and a master's degree in civil engineering, neither provides an advanced graduate program specifically focused on construction management. The proposed program will fill this regional educational gap and respond to industry demand for professionals who can manage increasingly complex projects, integrate emerging technologies, improve cost and schedule performance, and address safety, sustainability, workforce, and risk challenges. Its distinguishing features will include an applied and industry-responsive curriculum, integration of AI and digital construction technologies, interdisciplinary collaboration, and opportunities to address real-world regional construction problems.

Enrollment Projections

Demonstrate realistic, evidence-based enrollment expectations. • Provide projected enrollment (headcount) for Year 1, Year 3, and Year 5 after implementation. • Describe the evidence and assumptions used to develop the above projections. • Provide a summary of at least three years of enrollments (new and total) for existing programs within the department that are academically related to, or likely to share student populations, curricular resources, or instructional capacity with, the proposed program.

The proposed M.S. in Construction Management is expected to grow gradually through controlled cohort development, allowing the department to maintain instructional quality while building faculty capacity and market awareness. Initial enrollment projections are intentionally conservative and assume that the program will primarily attract working construction professionals, Sacramento State graduates, and students from related engineering, architecture, business, and real estate disciplines. We anticipate approximately 15 students in Year 1, 30 students in Year 3, and 50 students in Year 5. These projections reflect a phased implementation strategy that will allow the program to evaluate student demand, retention, faculty capacity, course offerings, and available instructional resources before expanding enrollment. The projections will be reviewed annually using application, admission, enrollment, retention, graduation, and workforce-demand data.

The projections are based on Sacramento State's existing B.S. in Construction Management program, which enrolls approximately 625 undergraduate students and admits over 100 new students annually. This established student population provides a strong potential pipeline for graduate study. Additional students are expected from civil engineering, architectural engineering, architecture, and related programs at Sacramento State and other institutions. The program will also serve working construction professionals seeking expertise in emerging and essential areas of construction management, including sustainable construction, advanced safety management, artificial intelligence and automation, prefabrication and industrialized construction, construction accounting, organizational behavior, leadership, negotiation, and relationship management.

Existing faculty expertise, laboratories, industry relationships, project-based instruction, advising, employer outreach, alumni engagement, and flexible course-delivery options will support recruitment and program growth. The Year 3 and Year 5 projections assume that appropriate faculty, classroom, laboratory, and advising resources will be available.

University Learning Goals

Graduate (Masters) Learning Goals:

Disciplinary knowledge
Communication
Critical thinking/analysis
Information literacy
Professionalism
Intercultural/Global perspectives
Research (optional)

Will this program be required as part of a teaching credential program, a single subject, or multiple subject waiver program (e.g., Liberal Studies, Biology) or other school personnel preparation program (e.g., School of Nursing)?

No

Curriculum Alignment and Assessment

Program Goals

Provide a brief statement of the program's overarching goals and priorities: • Describe the program's mission, focus, and intended impact on students. • Identify broad areas of emphasis (e.g., career preparation, research, community engagement, leadership development). • Goals may be aspirational or developmental and do not need to be directly measurable.

Program Goals Statement

The mission of the proposed MS in Construction Management is to prepare ethical, innovative, and technically capable construction professionals who can lead complex projects and respond effectively to the changing needs of the construction industry.

The program will focus on integrating advanced construction management knowledge with emerging technologies, including artificial intelligence, building information modeling, data analytics, robotics, and drone-supported applications. Students will develop the ability to make informed decisions related to cost, schedule, quality, safety, risk, sustainability, and project delivery.

The program's intended impact is to prepare graduates for advanced professional and leadership roles while strengthening the construction workforce in the Sacramento region and beyond. Broad areas of emphasis will include:

- Advanced career and leadership preparation
- Technology-enabled and AI-assisted construction management
- Sustainable and resilient construction practices
- Research, innovation, and problem-solving
- Ethical, safe, and responsible professional practice
- Industry and community engagement
- Interdisciplinary collaboration and lifelong learning

The program will encourage students to become effective leaders who can connect technical knowledge with practical judgment, ethical responsibility, and service to the construction industry and the communities it serves.

Program Learning Outcomes

Provide measurable, program-specific learning outcomes that reflect the most important competencies students will demonstrate upon completion of the program. Programs are expected to assess and use PLOs for continuous improvement.

Program Learning Outcomes

Learning Outcome
Integrate artificial intelligence, automation, prefabrication, BIM, robotics, and industrialized construction methods to improve construction productivity, innovation, decision-making, and project delivery.
Develop comprehensive safety programs that integrate regulatory compliance, hazard identification, risk assessment, safety leadership, and proactive safety culture.
Evaluate sustainable construction solutions that reduce environmental impacts, improve resource efficiency, and support responsible project delivery.
Apply accounting, financial management, behavioral science, communication, negotiation, and leadership principles to support construction project and organizational decisions.
Conduct applied research and integrate technical, financial, safety, sustainability, organizational, and technological knowledge to develop innovative solutions to construction-management challenges.

Learning Outcomes Display

Course Code	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5

Strategic Case for the Program

Provide specific evidence of alignment: • Explain how the program advances CSU Forward priorities. • Describe alignment with campus mission, strategic plan, and/or academic priorities. • Identify the institutional, regional, or system-level need or gap this program addresses. • Explain how the program complements existing CSU programs.

The proposed M.S. in Construction Management advances CSU Forward priorities by creating a flexible graduate pathway that supports economic mobility, career readiness, student success, and workforce development. The program will prepare graduates and working professionals for advanced roles in construction management, digital construction, sustainability, and emerging technologies.

The program aligns with Sacramento State's mission to prepare students to lead, serve, and succeed. It supports the university's priorities related to student success, innovation, community engagement, sustainability, and workforce preparation. It also directly supports the Academic Affairs priorities of digital transformation, professional preparation, and research-informed academic innovation.

The program addresses a regional and institutional need for professionals who can manage increasingly complex, technology-enabled, and sustainable construction projects. It will build on Sacramento State's established B.S. in Construction Management, industry relationships, laboratories, and applied learning opportunities. While the undergraduate program prepares students for entry-level professional practice, the proposed M.S. will emphasize advanced leadership, research, AI-assisted construction management, data analytics, building information modeling, sustainability, and strategic decision-making. It will also complement related CSU programs in civil engineering, engineering, architecture, computer science, and business through interdisciplinary collaboration.

Demonstrate workforce demand for the program using verifiable labor market data and documented employer input: • Identify 3–5 key occupations aligned with this program. • Summarize demand at the regional and/or state level (national data may supplement but not replace regional analysis) and how the data support the need for this program. Include: • Projected job growth • Median or entry-level wages • Current employment levels (if relevant) • Specific data sources (e.g., CA EDD, BLS, Lightcast) • Describe employer or industry input used to validate demand. • Provide evidence of student demand (if available).

The proposed M.S. in Construction Management responds to workforce demand in the Sacramento–Roseville–Folsom region. According to the California Employment Development Department, Construction Manager employment is projected to grow from 4,020 to 4,540 positions between 2022 and 2032, representing 12.9% growth. Project Management Specialist employment is projected to grow by 740 positions, or 11.8%; Civil Engineering employment by 410 positions, or 7.9%; and Cost Estimator employment by 120 positions, or 5.8%. Median wages range from approximately $84,600 to $135,400 annually.

These projections demonstrate regional demand for professionals with advanced expertise in construction leadership, project controls, estimating, civil infrastructure, sustainability, and technology-enabled project delivery. Employer demand is also supported by Sacramento State's existing relationships with construction companies, industry professionals, project-based learning, and student competitions. The current Construction Management program enrolls approximately 625 undergraduate students, providing a strong potential pipeline for the proposed graduate program.

Describe the program's value to students, how it is meaningfully differentiated from existing offerings, and how it will be sustained and remain current over time: • Describe the factors expected to attract and serve students. • Describe how this program will be meaningfully differentiated from existing offerings. • Describe how the curriculum, pedagogy, and program structure will remain responsive to evolving disciplinary, workforce, technological, and student needs over time. • How will the program prepare students to work ethically and effectively in environments increasingly shaped by AI and emerging technologies?

The proposed M.S. in Construction Management will provide students with advanced knowledge and practical skills for managing increasingly complex construction projects. Students will develop expertise in project delivery, estimating, scheduling, cost control, risk management, safety, sustainability, building information modeling, data analytics, artificial intelligence, robotics, and drone-supported surveying and inspection.

The program is expected to attract recent graduates from construction management, civil engineering, architectural engineering, architecture, and related disciplines, as well as working professionals seeking career advancement or preparation for leadership positions. Its location in the Sacramento region, strong industry connections, applied learning opportunities, and potential flexibility for working professionals will further enhance its value. The program will also provide an academic pathway for graduates of Sacramento State's existing B.S. in Construction Management program.

The M.S. program will be differentiated from the existing undergraduate program by emphasizing advanced analysis, research-informed practice, leadership, innovation, and technology integration. While the B.S. program prepares students for entry-level professional practice, the proposed master's degree will prepare graduates for advanced project leadership, specialized technical roles, research and innovation, and organizational decision-making. Its distinctive focus on AI-assisted construction management, digital delivery methods, automation, sustainability, and data-informed project control will distinguish it from traditional construction management programs.

The program will remain current through continuous assessment and regular curriculum review. Faculty will use employer and alumni feedback, industry advisory input, professional standards, emerging technologies, student performance data, and workforce trends to update courses and learning outcomes. Project-based learning, case studies, field applications, interdisciplinary collaboration, internships, guest lectures, and industry-sponsored projects will connect classroom learning to current professional practice. The program structure will also allow new electives, special topics courses, and certificates to be developed as disciplinary and workforce needs change.

Students will be prepared to work ethically and effectively in environments increasingly shaped by artificial intelligence and emerging technologies. The curriculum will emphasize that AI and automated tools support professional judgment but do not replace the responsibility of construction managers. Students will learn to evaluate the accuracy, limitations, bias, security, privacy, and potential risks of AI-generated information; validate digital outputs against project requirements and professional standards; protect confidential project and worker data; and document decisions transparently. Through realistic projects and case studies, students

will practice responsible technology adoption while addressing issues of safety, equity, accountability, cybersecurity, environmental impact, and the changing nature of construction work.

Please attach a Comprehensive Program Assessment Plan

MS_Construction_Management_Comprehensive_Assessment_Plan.xlsx

Please attach a Curriculum Map Matrix

MS_Construction_Management_Curriculum_Map_Matrix.pdf

Please attach a Five-Year Budget Projection. For NEW programs, also attach a Budget Narrative.

MS_Construction_Management_Five_Year_Budget_Projection_and_Budget_Narrative.xlsx

Please attach the updated roadmap:

MS_Construction_Management_Roadmap.xlsx

Catalog Description (catalog copy):

The M.S. in Construction Management prepares emerging and experienced construction professionals for leadership roles in a rapidly evolving industry. The program integrates advanced construction practice with emerging technologies, artificial intelligence, automation, prefabrication, sustainability, safety and risk management, financial decision-making, organizational leadership, negotiation, and stakeholder management. Through applied coursework and culminating research or project experiences, graduates develop the knowledge and skills to lead construction projects, teams, and organizations and to develop innovative, responsible solutions to complex construction challenges.

Admission and Continuation Requirements (catalog copy): minimum GPA and prerequisites (if applicable), required coursework or preparation, portfolio, test scores, and/or letters of recommendation. For graduate programs: expectations for a relevant bachelor's degree (required or preferred disciplines, prerequisite knowledge, or equivalent experience), include evidence that program requirements conform to the minimum requirements for the culminating experience, as specified in Title 5 Section 40510 The Master's Degree and Section 40511 The Doctoral Degree.

Admission to classified graduate standing in the M.S. in Construction Management requires:

- A minimum GPA of 2.8
- A bachelor's degree in construction management, architectural engineering, architecture, engineering technology, civil engineering, mechanical engineering, or a closely related discipline.
- Official transcripts from all colleges and universities attended, except Sacramento State.
- A department supplemental application, including a statement of purpose describing the applicant's professional goals and interest in construction management.
- A current résumé or curriculum vitae documenting relevant academic, professional, or industry experience.
- Two letters of recommendation from individuals familiar with the applicant's academic preparation, professional experience, or potential for graduate study.
- English-language proficiency as required by Sacramento State for applicants whose prior education was completed in a language other than English.

The GRE and GMAT are not required. The program may request additional information when necessary to evaluate an applicant's preparation for graduate study.

Applicants with a bachelor's degree in engineering, technical, scientific, business, or related discipline may be considered individually. Applicants whose preparation does not include required construction-management or quantitative foundations may be admitted with conditionally classified status and required to complete specified prerequisite coursework. A written study plan identifying these deficiencies and the required preparation must be approved by the department.

Applicants who do not meet the 2.8 GPA requirement may be considered for conditional admission when their professional experience, academic record, statement of purpose, recommendations, and potential for successful graduate study demonstrate adequate preparation. This approach is consistent with Sacramento State practices that distinguish classified and conditionally classified graduate admission and with the conditional-admission provisions.

Program Requirements (catalog copy):

Core Courses
6 courses | 18 units

- **CM 210** – Sustainable Design & Construction
- **CM 220** – Advanced Construction Safety Management
- **CM 230** – Artificial Intelligence and Automation in Construction
- **CM 240** – Prefabrication and Industrialized Construction
- **CM 250** – Construction Accounting
- **MBA 220** – Financial Management

Elective courses*
2-3 courses | 6-9

- **CM 290 –** Preparation for culminating exp
- **MBA 230** – Behavioral Science Applications in Management
- **MBA 232** – Negotiation and Relationship Management

Culminating Experience **
Plan A/Plan B | 3-6

Students may choose one of the following options:

- **CM 500:**
  - Plan A: Thesis – 3-6 units
  - Plan B**:** Project – 3 units

* With advisor approval, students may select courses from this list or other approved courses.
** Total required units for degree is 30. Variable units are listed due to variable culminating requirement units.

Please attach the Curriculum Overview

Program Curriculum Overview.pdf

Student Pipeline and Access

• Describe how the program will recruit and enroll its target student population. • Identify primary student sources (e.g., first-time, transfer, adult learners). • Describe recruitment strategies and outreach efforts. • Identify key feeder programs, pathways, or partnerships.

Recruitment and Enrollment of the Target Student Population
The M.S. in Construction Management will recruit a diverse student population consisting primarily of recent bachelor's degree graduates and working construction professionals seeking advanced technical, managerial, and leadership preparation. The initial cohort is projected to include approximately 15 students, with gradual growth as program awareness, course availability, and industry partnerships develop.

Primary Student Sources
Primary student sources will include:
- Recent graduates of Sacramento State programs in Construction Management, Civil Engineering, Mechanical Engineering, Architectural Engineering, Architecture, Interior Architecture, Engineering Technology, and related disciplines.
- Graduates of construction management, engineering, architecture, business, and related programs at other California colleges and universities.
- Working professionals employed by contractors, design firms, engineering firms, developers, public agencies, construction consultants, and specialty subcontractors.
- Construction professionals seeking advancement into project management, operations management, safety leadership, estimating, preconstruction, sustainability, technology integration, or executive roles.
- International students and domestic applicants with equivalent bachelor's degrees and relevant technical or professional preparation.
- Sacramento State alumni and regional professionals seeking a flexible graduate program that can be completed while working.

Transfer students will not be a primary source because the program is a graduate degree. However, graduates of community-college transfer pathways who subsequently complete bachelor's degrees in construction management, engineering, architecture, or related fields will be eligible to apply.

Recruitment Strategies and Outreach
Recruitment will emphasize the program's practice-oriented curriculum, Sacramento location, flexible delivery format, industry relevance, and focus on emerging construction technologies. Planned strategies include:
- Direct outreach to Sacramento State undergraduate students, graduating seniors, alumni, and students enrolled in related programs.
- Presentations and information sessions for students in Construction Management, Civil Engineering, Mechanical Engineering, Architecture, Interior Architecture, Real Estate, and related programs.
- Faculty referrals, alumni ambassadors, targeted email campaigns, program webpages, digital media, graduate fairs, and virtual information sessions.
- Outreach to regional employers through employer presentations, professional meetings, career events, advisory activities, and continuing-education communications.
- Recruitment messaging focused on artificial intelligence, BIM, automation, robotics, prefabrication, safety, sustainability, financial management, and construction leadership.
- Flexible evening, hybrid, and practice-oriented course delivery to accommodate employed professionals.
- Application workshops and advising support to help prospective students understand prerequisite preparation, admission requirements, financial planning, and the thesis or project options.
- Targeted outreach to historically underrepresented students and professionals to promote access, inclusion, and leadership diversity in construction management.

Feeder Programs, Pathways, and Partnerships

The program will develop recruitment pathways with Sacramento State undergraduate programs and related regional academic programs. Priority pathways will include Construction Management, Civil Engineering, Mechanical Engineering, Architectural Engineering, Architecture, Interior Architecture, Real Estate, and business programs. The department may also explore accelerated or 4+1 pathways for qualified Sacramento State students after the initial program has been established and approved.

Industry recruitment will be supported through relationships with construction contractors, specialty subcontractors, design and engineering firms, developers, public agencies, professional associations, and construction-industry advisory groups in the Sacramento region. These relationships may provide guest speakers, applied project topics, employee referrals, internship and employment connections, mentoring, and advisory feedback on program relevance.
The program will also maintain relationships with Sacramento State career services, graduate recruitment offices, alumni networks, engineering and construction student organizations, and regional professional organizations. Employer-supported enrollment, tuition assistance, and cohort participation will be encouraged as the program develops.

Enrollment growth will be managed deliberately to preserve instructional quality, faculty advising capacity, access to culminating-experience supervisors, and availability of interdisciplinary courses. Prospective students will receive early advising regarding prerequisite deficiencies and program planning so that admitted students can progress efficiently through the four-semester curriculum.

• Describe how the program will support student success. • Describe academic support services available to students. • Describe career and experiential learning support. • Identify program-specific supports (e.g., advising, cohort models, mentoring). • Explain how students will access services based on delivery modality. For fully online programs (required): • Describe how advising, tutoring, library, and career services are delivered remotely. • Explain how student engagement and access are ensured.

Student Success and Support
The M.S. in Construction Management will support student success through structured advising, faculty mentoring, cohort-based learning, applied projects, and early academic intervention. The planned hybrid and evening-friendly format will accommodate recent graduates and working professionals.

Academic Support Services
Students will have access to:
- ECS advising and department faculty advising for course planning, prerequisites, academic progress, Advancement to Candidacy, and graduation requirements.
- Faculty guidance on research topics, thesis or project preparation, and culminating-experience requirements.
- University Reading and Writing Center support for research proposals, technical reports, theses, and projects through in-person, online, and asynchronous appointments.
- Library research assistance, construction-management databases, technical publications, standards, and librarian consultations.
- Tutoring, academic workshops, accessibility services, counseling, wellness resources, and other Sacramento State support services.

Faculty will monitor student progress through advising, course assessment, and regular communication. Students experiencing academic difficulties or prerequisite delays will receive referrals and individualized degree-completion plans.

Career and Experiential Learning Support
Career preparation will be integrated throughout the curriculum through applied cases, safety programs, financial analyses, negotiation exercises, technology applications, research proposals, and thesis or project work.
Students will receive:
- Faculty and industry mentoring.
- Employer presentations, guest speakers, site visits, and applied project opportunities.
- Connections with contractors, consultants, design firms, developers, public agencies, and professional organizations.
- Career advising, résumé and interview preparation, networking, and employment resources through the Sacramento State Career Center.
- Industry-informed thesis and project topics.
- Feedback from employers and alumni to maintain curriculum relevance.

Program-Specific Supports
The program will provide:
- A designated graduate program coordinator.
- An assigned faculty advisor for each student.
- An initial degree-planning meeting during the first semester.
- A cohort model that promotes peer collaboration and timely progression.
- Early identification and resolution of prerequisite deficiencies.
- CM 290 preparation for thesis or project selection, proposal development, literature or industry review, and faculty-supervisor identification.
- Advising milestones before Advancement to Candidacy and the culminating experience.
- Peer collaboration through team projects, professional discussions, student organizations, and industry events.

Access Based on Delivery Modality

The program will use a hybrid and evening-friendly format rather than a fully online model. Students will access support through in-person and virtual advising, faculty office hours, email, online scheduling, Zoom or other university platforms, the learning-management system, online library resources, Microsoft Teams writing appointments, and remote career counseling.

Cohort meetings, collaborative assignments, faculty check-ins, industry events, and early outreach will promote engagement. Course materials and announcements will be available online so that working students can remain connected when they cannot attend in person. Although the program is not fully online, essential advising, writing, library, career, and mentoring services will be available remotely.

Resources for Implementation

Curriculum Resource Implications

• Describe resource implications of curriculum development and delivery. • Identify the number and level of new courses required (if any). • Describe the purpose and development timeline for new courses. • Explain how curriculum design aligns with available faculty and instructional resources.

Resource Implications of Curriculum Development and Delivery
The proposed curriculum can be implemented primarily through existing Construction Management faculty, supplemented by qualified part-time lecturers and industry professionals where specialized expertise is needed. The program will also use interdisciplinary resources from Civil Engineering, Mechanical Engineering, and the College of Business and Administration.

New Courses
The program requires six new Construction Management courses:
- CM 210 Sustainable Design and Construction
- CM 220 Advanced Construction Safety Management
- CM 230 Artificial Intelligence and Automation in Construction
- CM 240 Prefabrication and Industrialized Construction
- CM 250 Construction Accounting
- CM 290 Preparation for Culminating Experience

The MBA courses, MBA 220, MBA 232, and MBA 230, are planned as existing interdisciplinary courses, subject to confirmation of prerequisites, scheduling, enrollment capacity, and approval by the College of Business and Administration. The thesis or project will be completed through an approved culminating-experience course.

Purpose and Development Timeline
The new courses will provide advanced preparation in sustainability, safety, construction technology, financial decision-making, and applied research. CM 290, Preparation for the Culminating Experience, will guide students through research or project development, Advancement to Candidacy, and preparation for the thesis or project.

Faculty have completed and submitted the course proposals, syllabi, learning outcomes, assessment plans, resource requirements, and catalog descriptions. For the planned Fall 2027 launch, the remaining timeline will focus on department, college, and university curriculum review and approval during 2026–27. Faculty assignments, course offerings, advising procedures, and class schedules will be finalized before student registration begins.

Faculty and Instructional Resources
The curriculum is aligned with available faculty and instructional resources because:
- Construction Management faculty will provide the core construction, safety, sustainability, technology, and culminating-experience instruction.
- Business faculty and existing MBA courses will support finance, behavioral science, negotiation and relationship management.
- Existing classrooms, learning-management systems, library resources, computer facilities, BIM and project-management software, and construction-industry partnerships will support delivery.
- Industry professionals may contribute guest lectures, applied projects, mentoring, site-based learning, and thesis or project supervision when appropriate.

Resource needs will be reviewed annually based on enrollment, course demand, faculty workload, student assessment results, and emerging industry technologies.

Faculty and Staffing

List faculty members, with rank, appointment status, highest degree earned, date and field of highest degree, and professional experience (including publications if the proposal is for a graduate degree), who would teach in the proposed program:

Name	Rank	Appointment Status	Highest Degree Earned	Year of Highest Degree Earned (YYYY)	Publications/Professional Experience
Mohammed Alsharqawi	Assistant Professor	Full Time	Doctorate	2018	Combined experience as an industry professional and academic educator
Mikael Anderson	Professor	Full Time	Masters	1998	Combined experience as an industry professional and academic educator
Gareth Figgess	Associate Professor	Full Time	Masters	2011	Combined experience as an industry professional and academic educator
Atefeh Mohammadpour	Associate Professor	Full Time	Doctorate	2014	Combined experience as an industry professional and academic educator
Tarek Salama	Associate Professor	Full Time	Doctorate	2018	Combined experience as an industry professional and academic educator
Edgar T. Vilca	Lecturer	Full Time	Masters	2000	Combined experience as an industry professional and academic educator
Ruth Waters-Lopez	Lecturer	Full Time	Masters	2018	Combined experience as an industry professional and academic educator

Enrollment and faculty positions should be shown for all discipline categories which will increase because of the new program and for all discipline categories which will decrease because of the new program. If faculty positions are to be transferred into the new program from other areas, the reductions in faculty positions should be shown on the appropriate discipline category or categories:

Enrollment and Faculty Position Implications
The proposed M.S. in Construction Management is a new graduate program. It is expected to increase enrollment and instructional demand in Construction Management without reducing enrollment or faculty positions in existing programs. Initial enrollment is projected to grow from approximately 15 students in Year 1 to 50 students by Year 5.

No faculty positions are expected to be transferred from existing programs into the M.S. in Construction Management at launch. Faculty will teach in both the BS and MS programs. If future enrollment requires reassignment or transfer of faculty effort, the corresponding reduction will be reported.

Special Characteristics of Additional Faculty and Staff Support
Initial delivery will rely primarily on existing faculty, approved workload assignments, qualified part-time lecturers, and industry professionals. Additional support may include faculty course releases or overload assignments, graduate program coordination, academic advising, admissions support, scheduling, assessment coordination, and thesis/project administration.

As enrollment increases, the program will review faculty workload, course-section demand, advising needs, and culminating-experience supervision capacity. Additional lecturer, tenure-track, staff, or graduate-assistant support will be requested when necessary to maintain instructional quality and timely student completion.

Any special characteristics of the additional faculty or staff support positions needed to implement the proposed program:

The program will require faculty and staff with expertise in advanced construction management, artificial intelligence and automation, BIM, prefabrication, construction safety, sustainability, finance, leadership, and applied research. Faculty should have relevant academic preparation and industry experience sufficient to teach practice-oriented graduate courses, supervise thesis and project work, mentor working professionals, and maintain industry partnerships. Initial delivery will rely on existing faculty, qualified part-time lecturers, and industry professionals.

Facilities and Infrastructure

Space and facilities that would be used in support of the proposed program: Show how this space is currently used and what alternate arrangements, if any, will be made for the current occupants.

The program will use existing shared classrooms, seminar rooms, computer laboratories, construction laboratories, faculty offices, and student collaboration spaces within the College of Engineering and Computer Science. Evening and hybrid scheduling will reduce conflicts with current occupants. No relocation is anticipated; additional classrooms or laboratory periods will be scheduled as enrollment grows.

Library resources to support the program, specified by subject areas, volume count, periodical holdings, etc.:

Students will use existing Sacramento State Library resources. Resources will include books, e-books, technical standards, peer-reviewed journals, government publications, engineering and business databases, and industry reports.

Equipment and other specialized materials currently available:

The program will use existing computer laboratories, BIM and project-management software, construction laboratory equipment, safety-training materials, surveying and inspection tools, and available digital technologies such as sensors, drones, 3D scanning, and visualization tools. Industry partners may provide site-based learning and applied project opportunities. Additional software, equipment, or laboratory resources will be added as enrollment and course needs develop.

Additional Facilities and Infrastructure

The amount of additional lecture and/or laboratory space required to initiate and sustain the program over the next five years: Indicate any additional special facilities that will be required. If the space is under construction, what is the projected occupancy date? If the space is planned, indicate campus wide priority of the facility, capital outlay program priority, and projected date of occupancy.

Existing classroom and computer lab spaces

Additional library resources needed: Indicate the commitment of the campus to purchase or borrow through interlibrary loan these additional resources.

Existing resources

Additional equipment or specialized materials that will be 1) needed to implement the program and 2) needed during the first two years after initiation: Indicate source of funds and priority to secure these resource needs.

Existing resources

External Partnerships (if applicable)

Describe partnerships that are essential to program delivery, student learning, or workforce alignment. • Identify external partners (e.g., industry, community organizations, clinical sites, school districts) that play a direct role in the program. • Describe how each partner contributes to program delivery (e.g., internships, clinical placements, co-teaching, curriculum input). • Indicate the status of partnerships (i.e., established, in development, or planned). • Describe how partnerships will be sustained over time, if critical to program success.

The program will build on Sacramento State's existing relationships with contractors, specialty subcontractors, engineering and design firms, developers, public agencies, professional organizations, and the Sacramento Construction Management Education Foundation. Partners will support the program through:

- Guest lectures, mentoring, site visits, and applied projects.
- Internships, research topics, thesis and project opportunities.
- Curriculum feedback and workforce-alignment guidance.
- Professional networking, career events, and employment connections.

Existing industry relationships are established, while formal graduate-specific partnerships are in development. Partnerships will be sustained through CM Department industry advisory group, annual curriculum review, employer and alumni feedback, professional events, and future agreements or memoranda of understanding as needed.

Note: Include only partnerships that are directly tied to program implementation or student experience.

Please attach any additional files not requested above:

CM Master's Degree (Departmental Consultation - MBA 220, 232, 230).pdf

Reviewer Comments:

Gareth Figgess (figgess) (Tue, 13 Oct 2026 22:36:14 GMT): Have been in communication with MBA Department. Awaiting specific approval for MBA classes referenced. Will submit evidence of departmental consultation & consent upon receipt.

Gareth Figgess (figgess) (Tue, 13 Oct 2026 22:37:08 GMT): If none received, will request rollback

Key: 648