SOUTH DAKOTA BOARD OF REGENTS
ACADEMIC AFFAIRS FORMS

Substantive Program Modification Form

UNIVERSITY:	**SDSU**
CURRENT PROGRAM DEGREE:	**Bachelor of Science (B.S.)**
CURRENT PROGRAM MAJOR/MINOR:	**Construction Management**
CURRENT SPECIALIZATION:	**N/A**
CIP CODE:	**52.2001**
UNIVERSITY DEPARTMENT:	**Department of Construction and Concrete Industry Management**
BANNER DEPARTMENT CODE:	**SCCM**
UNIVERSITY COLLEGE:	**Jerome J Lohr College of Engineering**
BANNER COLLEGE CODE:	**3E**

University Approval
To the Board of Regents and the Executive Director: I certify that I have read this proposal, that I believe it to be accurate, and that it has been evaluated and approved as provided by university policy.

Dennis D. Hedge — Vice President of Academic Affairs or President of the University

4/16/2025 — Date

1. **This modification addresses a change in:**
   - ☐ Total credits required within the discipline
   - ☒ Total credits of supportive course work
   - ☒ Total credits of elective course work
   - ☐ Total credits required for program
   - ☐ Program name
   - ☐ Existing specialization
   - ☒ CIP Code
   - ☐ Other (explain below)
   - ☐ Modification requiring Board of Regents approval
     Must have prior approval from Executive Director or designee
2. **Effective date of change: 2025-2026 Academic Year**
3. **Program Degree Level:**
   Associate ☐ Bachelor's ☒ Master's ☐ Doctoral ☐
4. **Category:**
   Certificate ☐ Specialization ☐ Minor ☐ Major ☒
5. **If a name change is proposed, the change will occur:**
   ☐ On the effective date for all students
   ☐ On the effective date for students new to the program (enrolled students will graduate from existing program)
   Proposed new name:
6. **Is the program being modified associated with a current articulation agreement?** Yes ☐ No ☒
   a. **If yes, will the articulation agreement need to be updated with the partner institution following the approve of the program change? Please explain:**

7. Primary Aspects of the Modification:

Existing Curriculum				*Proposed Curriculum (highlight changes)*			
Pref.	**Num.**	**Title**	**Cr. Hrs.**	**Pref.**	**Num.**	**Title**	**Cr. Hrs.**
System General Education Requirements			**32**	**System General Education Requirements**			**32-34**
System General Education Requirements - Electives			**9**	**System General Education Requirements - Electives**			**15**
		SGR #1 Written Communication	3			SGR #1 Written Communication	3
		SGR #2 Oral Communication	3			SGR #2 Oral Communication	3
		SGR #3 Social Sciences	3			SGR #3 Social Sciences	3
		SGR #4 Arts and Humanities	3			SGR #4 Arts and Humanities	3
		SGR #4 Arts and Humanities	3			SGR #4 Arts and Humanities	3
System General Education Requirements - Required			**17**	**System General Education Requirements - Required**			**17-19**
ENGL	277	Technical Writing in Engineering (SGR #1)	3	ENGL	277	Technical Writing in Engineering (SGR #1)	3
ECON	201	Principles of Microeconomics (SGR #3)	3	ECON	201	Principles of Microeconomics (SGR #3)	3
MATH	114	College Algebra (SGR #5)	3	~~MATH~~	~~114~~	~~College Algebra (SGR #5)~~	~~3~~
				MATH OR MATH OR MATH	120 121-121L 123	Trigonometry (SGR#5) (3) Or Survey of Calculus & Lab (SGR#5) (4, 1) Calculus I (SGR#5) (4)	3-5
CHEM	106-106L	Chemistry Survey & Lab (SGR #6) (3, 1)	4	CHEM OR CHEM	106-106L 112-112L	Chemistry Survey and Lab (SGR #6) (3, 1) General Chemistry I and Lab (SGR #6) (3, 1)	4
PHYS	111-111L	Introduction to Physics I (SGR #6) (3, 1)	4	PHYS OR PHYS	111-111L 207-207L	Introduction to Physics I (SGR #6) (3, 1) Fundamentals of Physics I and Lab (SGR#6) (3, 1)	4
Major Requirements			**57**	**Major Requirements**			**57**
CM	124	Construction Graphics	3	CM	124	Construction Graphics	3
CM	130	Management Tools and Analysis	3	CM	130	Management Tools and Analysis	3
CM	210	Construction Surveying	3	CM	210	Construction Surveying	3
CM	210L	Construction Surveying Lab	1	CM	210L	Construction Surveying Lab	1
CM	216	Construction Methods & Materials	3	CM	216	Construction Methods & Materials	3
CM	216L	Construction Methods & Materials Lab	1	CM	216L	Construction Methods & Materials Lab	1
CM	232	Cost Estimating	3	CM	232	Cost Estimating	3
CM	320	Construction Soil Mechanics	3	CM	320	Construction Soil Mechanics	3
CM	320L	Construction Soil Mechanics Lab	1	CM	320L	Construction Soil Mechanics Lab	1
CM	333	Mechanical, Electrical, Plumbing Systems	3	CM	333	Mechanical, Electrical, Plumbing Systems	3
CM	352	Advanced Cost Estimating with BIM	3	CM	352	Advanced Cost Estimating with BIM	3
CM	353	Construction Structures	3	CM	353	Construction Structures	3
CM	374	Heavy Construction Methods and Systems	3	CM	374	Heavy Construction Methods and Systems	3
CM	400	Risk Management and Construction Safety	3	CM	400	Risk Management and Construction Safety	3
CM	410	Construction Project Mgmt. and Supervision	3	CM	410	Construction Project Mgmt. and Supervision	3
CM	443	Construction Planning and Scheduling	3	CM	443	Construction Planning and Scheduling	3
CM	471	Capstone Experience	2	CM	471	Capstone Experience	2
CM	473	Construction Law and Contracts	3	CM	473	Construction Law and Contracts	3
CM	490	Seminar	1	CM	490	Seminar	1
		Technical Electives	9			Technical Electives	9
Supporting Coursework			**31**	**Supporting Coursework**			**28**
ACCT	210	Principles in Accounting I	3	ACCT	210	Principles in Accounting I	3
ACCT	211	Principles in Accounting II	3	ACCT	211	Principles in Accounting II	3
BADM	360	Organization and Management (3)	3	~~BADM~~	~~360~~	~~Organization and Management (3)~~	3

Existing Curriculum				*Proposed Curriculum (highlight changes)*			
Pref.	**Num.**	**Title**	**Cr. Hrs.**	**Pref.**	**Num.**	**Title**	**Cr. Hrs.**
OR GE	385	Introduction to Systems Engineering and Management (3)		~~OR~~ GE	385	Introduction to Systems Engineering and Management (3)	
CSC	325	Management Information Systems	3	CSC	325	Management Information Systems	3
FIN OR OM	310 460	Business Finance (3) Engineering Economic Analysis (3)	3	~~FIN~~ ~~OR~~ MNET	~~310~~ 460	~~Business Finance (3)~~ Engineering Economic Analysis (3)	3
GE	101	Introduction to Engineering & Technical Professions	1	GE	101	Introduction to Engineering & Technical Professions	1
GE	231	Technology Society & Ethics	3	GE	231	Technology Society & Ethics	3
GE	241	Applied Mechanics	3	GE	241	Applied Mechanics	3
HRM OR LDR	460 435	Human Resource Management (3) Organizational Leadership & Team Development (3)	3	HRM OR LDR	460 435	Human Resource Management (3) Organizational Leadership & Team Development (3)	3
MATH	120	Trigonometry	3	~~MATH~~	~~120~~	~~Trigonometry~~	~~3~~
STAT	281	Introduction to Statistics	3	STAT	281	Introduction to Statistics	3
Electives			**0**	**Electives**			**1-3**
Summary of Credits Construction Management (B.S.)							
System General Education Requirements			**32**	**System General Education Requirements**			**32-34**
Major Requirements			**57**	**Major Requirements**			**57**
Supporting Coursework			**31**	**Supporting Coursework**			**28**
Electives			**0**	**Electives**			**1-3**
Total number of hours required for major			105	Total number of hours required for major			102-104
Total number of hours required for degree			120	Total number of hours required for degree			120

CIP Code

Current CIP Code: 52.2001; Title: Construction Management, General.
Definition: A program that prepares individuals to manage, coordinate, and supervise the construction process. Includes instruction in commercial, residential, mechanical, highway/heavy civil, electrical, environmental, industrial, and specialty construction; facilities management; budgeting and cost control; logistics and materials management; organization and scheduling; personnel management and labor relations; site safety; construction contracting; construction processes and techniques; and applicable codes and regulations.

Proposed CIP Code: 15.1001; Title: Construction Engineering Technology/Technician.
Definition: A program that prepares individuals to apply basic engineering principles and technical skills in support of engineers, engineering contractors and other professionals engaged in the construction of buildings and related structures. Includes instruction in basic structural engineering principles and construction techniques, building site inspection, site supervision, construction personnel supervision, plan and specification interpretation, supply logistics and procurement, applicable building codes, and report preparation.

8. Explanation of the Change:

The Construction Management program has requested changes to update the curriculum to better accommodate the different pathways students take when pursuing the degree, either before coming to SDSU or when switching from a different major into Construction Management. The updated mathematics course options reflect these prior courses and varying levels of mathematics preparation, while the choices for chemistry and physics are designed for students transferring from engineering and other related fields. To allow students to focus on key courses, BADM 360 Organization and Management and FIN 310 Business Finance have been removed from the supporting coursework, with an emphasis on completing GE 385 Introduction to Systems

Engineering and Management and MNET 460 Engineering Economic Analysis instead. Furthermore, a change in the CIP code is being requested to more accurately reflect the nature of the program as defined by the CIP code.