



**SOUTH DAKOTA BOARD OF REGENTS  
ACADEMIC AFFAIRS FORMS**

**Substantive Program Modification Form**

<b>UNIVERSITY:</b>	<b>SDSU</b>
<b>CURRENT PROGRAM TITLE:</b>	<b>Construction Management [S.BSCM.CM]</b>
<b>CIP CODE:</b>	<b>52.2001</b>
<b>UNIVERSITY DEPARTMENT:</b>	<b>Construction &amp; Operations Management</b>
<b>UNIVERSITY DIVISION:</b>	<b>Jerome J. Lohr College of Engineering</b>

**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

\_\_\_\_\_  
 3/26/2018  
 Date

**1. This modification addresses a change in:**

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Total credits required within the discipline | <input checked="" type="checkbox"/> Total credits of supportive course work |
| <input type="checkbox"/> Total credits of elective course work                   | <input type="checkbox"/> Total credits required for program                 |
| <input type="checkbox"/> Program name  | <input type="checkbox"/> Existing specialization                            |
| <input type="checkbox"/> CIP Code  | <input type="checkbox"/> Other (explain below)                              |

**2. Effective date of change: 2018-2019 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:** \_\_\_\_\_

*Reminder: Name changes may require updating related articulation agreements, site approvals, etc.*

**6. Primary Aspects of the Modification:**

*Existing Curriculum*

*Proposed Curriculum (highlight changes)*

Pref.	Num.	Title	Cr. Hrs.	Pref.	Num.	Title	Cr. Hrs.
		<b>System General Education Requirements</b>	<b>32</b>			<b>System General Education Requirements</b>	<b>32</b>
		SGR 1 Written Communication	6			SGR 1 Written Communication	6
		ENGL 101 Composition I (3)				ENGL 101 Composition I (3)	
		ENGL 277 Technical Writing in Engineering (3)				ENGL 277 Technical Writing in Engineering (3)	
		SGR 2 Oral Communication	3			SGR 2 Oral Communication	3
		SPCM 101 Fundamentals of Speech				SPCM 101 Fundamentals of Speech	
		SGR 3 Social Sciences/Diversity	6			SGR 3 Social Sciences/Diversity	6

*Existing Curriculum*

*Proposed Curriculum (highlight changes)*

ECON 201 Principles of Microeconomics (3) Student Choice (3)				ECON 201 Principles of Microeconomics (3) Student Choice (3)			
SGR 4 Arts and Humanities/Diversity				SGR 4 Arts and Humanities/Diversity			
SGR 5 Mathematics				SGR 5 Mathematics			
MATH 102 College Algebra				MATH 102 College Algebra			
SGR 6 Natural Sciences				SGR 6 Natural Sciences			
PHYS 111-111L Introduction to Physics I & Lab (4) AND				PHYS 111-111L Introduction to Physics I & Lab (4) AND			
CHEM 106-106L Chemistry Survey & Lab (4)				CHEM 106-106L Chemistry Survey & Lab (4)			
<b>Major Requirements</b>				<b>Major Requirements</b>			
55				55			
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	210-210L	Construction Surveying & Lab	3	CM	210-210L	Construction Surveying & Lab	3
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	320-320L	Construction Soil Mechanics & Lab	3	CM	320-320L	Construction Soil Mechanics & Lab	3
CM	333	Mechanical, Electrical, Plumbing Systems	3	CM	333	Mechanical, Electrical, Plumbing Systems	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 Accounting	3	CM	473	Construction Law and Accounting	3
CM	490	Seminar	1	CM	490	Seminar	1
Technical Electives			12	Technical Electives			14
<b>Supporting Coursework</b>				<b>Supporting Coursework</b>			
33				33			
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
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
MATH	121-121L	Survey of Calculus & Lab	5	MATH	121-121L	Survey of Calculus & Lab	5
				MATH	120	Trigonometry	3
MGMT	310	Business Finance	3	MGMT	310	Business Finance	3
MGMT	325	Management Information Systems	3	MGMT	325	Management Information Systems	3
MGMT	360	Organization and Management	3	MGMT	360	Organization and Management	3
MGMT	460	Human Resource Management	3	MGMT	460	Human Resource Management	3
STAT	281	Introduction to Statistics	3	STAT	281	Introduction to Statistics	3
<b>Summary of Credits Construction Management (B.S.)</b>							
<b>System General Education Requirements</b>				<b>System General Education Requirements</b>			
32				32			
<b>Major Requirements</b>				<b>Major Requirements</b>			
55				57			
<b>Supporting Coursework</b>				<b>Supporting Coursework</b>			
33				31			
Total number of hours required for major			55	Total number of hours required for major			57

<i>Existing Curriculum</i>		<i>Proposed Curriculum (highlight changes)</i>	
Total number of hours required for degree	120	Total number of hours required for degree	120

**7. Explanation of the Change:**

Construction Management students have a number of courses where trigonometry concepts are used including Construction Surveying, Applied Mechanics, Construction Structures, and Construction Soils. A topical review of MATH 120 versus MATH 121 indicates Trigonometry is a better fit.