SOUTH DAKOTA BOARD OF REGENTS
ACADEMIC AFFAIRS FORMS

Substantive Program Modification Form

UNIVERSITY:	**SDSU**
CURRENT PROGRAM TITLE:	**Construction Technology (A.S.)**
CIP CODE:	**15.1001**
UNIVERSITY DEPARTMENT:	**Construction & Operations Management**
UNIVERSITY DIVISION:	**Jerome J. Lohr College of Engineering**

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

1/23/2019 — Date

1. This modification addresses a change in:

☒ Total credits required within the discipline
☒ Total credits of elective course work
☐ Program name
☐ CIP Code
☒ Total credits of supportive course work
☐ Total credits required for program
☐ Existing specialization
☐ Other (explain below)

2. Effective date of change: 2019-2020 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. 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			**25**	**System General Education Requirements**			**25**
SGR 1 Written Communication		ENGL 101 Composition I (3) Student Choice (3)	6	SGR 1 Written Communication		ENGL 101 Composition I (3) Student Choice (3)	6
SGR 2 Oral Communication		SPCM 101 Fundamentals of Speech	3	SGR 2 Oral Communication		SPCM 101 Fundamentals of Speech	3
SGR 3 Social Sciences/Diversity		Student Choice (3)	3	SGR 3 Social Sciences/Diversity		Student Choice (3)	3
SGR 4 Arts and Humanities/Diversity			3	SGR 4 Arts and Humanities/Diversity			3
SGR 5 Mathematics			3	SGR 5 Mathematics		MATH 114 College Algebra	3

Existing Curriculum				*Proposed Curriculum (highlight changes)*			
Pref.	**Num.**	**Title**	**Cr. Hrs.**	**Pref.**	**Num.**	**Title**	**Cr. Hrs.**
SGR 6 Natural Sciences CHEM 106-106L Chemistry Survey & Lab (4) Student Choice (3)			7	SGR 6 Natural Sciences CHEM 106-106L Chemistry Survey & Lab (4) Student Choice (3)			7
Major Requirements			**21**	**Major Requirements**			**26**
CM	101	Intro to Construction	1	~~CM~~	~~101~~	~~Intro to Construction~~	~~1~~
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	216	Construction Methods & Materials	3	CM	216	Construction Methods & Materials	3
CM	232	Cost Estimating	3	CM	232	Cost Estimating	3
CM	235	Mechanical, Electrical, Plumbing Plans & Specifications	3	~~CM~~	~~235~~	~~Mechanical, Electrical, Plumbing Plans & Specifications~~	~~3~~
CM	250	Construction Project Management I	2	CM	250	Construction Project Management I	2
				CM	333	Mechanical, Electrical, Plumbing Systems	3
GE	265	Industrial Safety	3	GE	265	Industrial Safety	3
				Technical Electives			6
Supporting Coursework			**9**	**Supporting Coursework**			**6**
ACCT	210	Principles in Accounting I	3	ACCT	210	Principles in Accounting I	3
GE	231	Technology Society & Ethics	3	GE	231	Technology Society & Ethics	3
MNET	243	Intro to Materials Science	3	~~MNET~~	~~243~~	~~Intro to Materials Science~~	~~3~~
Electives			**5**	**Elective**			**3**
Summary of Credits Construction Technology (A.S.)							
System General Education Requirements			**25**	**System General Education Requirements**			**25**
Major Requirements			**21**	**Major Requirements**			**26**
Supporting Coursework			**9**	**Supporting Coursework**			**6**
Electives			**5**	**Elective**			**3**
Total number of hours required for major			30	Total number of hours required for major			32
Total number of hours required for degree			60	Total number of hours required for degree			60

7. Explanation of the Change:

The Department of Construction and Operations Management has reviewed the A.S. in Construction Technology program requirements. The Department recommends the following changes:

- Students in the Construction Technology major need to complete MATH 114 College Algebra (3 cr.) for future coursework in materials, estimating, and accounting.
- CM 101 Introduction to Construction (1 cr.) was removed from the major requirements. The one credit was added to the technical electives. The Department has found most students are either working in the field or have a good understanding of construction.
- CM 235 Mechanical, Electrical, Plumbing Plans and Specifications (3 cr.) has been replaced by CM 333 Mechanical, Electrical, Plumbing Systems (3 cr.). The content overlap was significant and students who matriculated from the AS-CT to BS-CM would use CM 235 in lieu of CM 333.
- MNET 243 Introduction to Materials Science (3 cr.) was removed from the supporting coursework. The content duplicated some of the material already covered in CM 216 Construction Methods & Materials. The three credits were converted to an open elective.