



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

Substantive Program Modification Form

UNIVERSITY:	SDSU
CURRENT PROGRAM DEGREE:	Master of Science (M.S.)
CURRENT PROGRAM MAJOR/MINOR:	Agricultural & Biosystems Engineering
CURRENT SPECIALIZATION:	N/A
CIP CODE:	14.0301
UNIVERSITY DEPARTMENT:	Agricultural & Biosystems Engineering
BANNER DEPARTMENT CODE:	SABE
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 <hr/> Vice President of Academic Affairs or President of the University	3/28/2024 <hr/> Date
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1. This modification addresses a change in:

- | | |
|--|--|
| <input checked="" type="checkbox"/> Total credits required within the discipline | <input type="checkbox"/> Total credits of supportive course work |
| <input checked="" type="checkbox"/> Total credits of elective course work | <input checked="" 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) |
| <input type="checkbox"/> Modification requiring Board of Regents approval | |
- Must have prior approval from Executive Director or designee*

2. Effective date of change: 2024-2025 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: N/A

7. Primary Aspects of the Modification:

Existing Curriculum

Proposed Curriculum (Highlight Changes)

Pref	Num	Title	Cr Hrs	Pref	Num	Title	Cr Hrs
ABE	790	Seminar	1	ABE	790	Seminar	1
STAT	541	Statistical Methods II	3	STAT	541	Statistical Methods II	3
				ABE	5xx/6xx/7xx	ABE Electives	9
		ABE Electives - Select from the following:	9			ABE Electives - Select from the following:	9
ABE	544	Unit Operations of Biological Materials Processing	3	ABE	544	Unit Operations of Biological Materials Processing	3
ABE	544L	Unit Operations of Biological Materials Processing Laboratory	1	ABE	544L	Unit Operations of Biological Materials Processing Laboratory	1
ABE	555	Principles Biological Separation Processing	2	ABE	555	Principles Biological Separation Processing	2
ABE	555L	Principles of Biological Separation Processes Laboratory	1	ABE	555L	Principles of Biological Separation Processes Laboratory	1
ABE	732	Advanced Hydrology in Agriculture	3	ABE	732	Advanced Hydrology in Agriculture	3
ABE	733	Ground Water Engineering in Agriculture	3	ABE	733	Ground Water Engineering in Agriculture	3
ABE	734	Advanced Irrigation Engineering	3	ABE	734	Advanced Irrigation Engineering	3
ABE	748	Bioseparations	3	ABE	748	Bioseparations	3
ABE	752	Theoretical Micro-Climatology	2	ABE	752	Theoretical Micro-Climatology	2
ABE	754	Advanced Unit Operations of Food/Biomaterials Processing	2	ABE	754	Advanced Unit Operations of Food/Biomaterials Processing	2
ABE	754L	Advanced Unit Operations of Food/Biomaterials Processing Laboratory	1	ABE	754L	Advanced Unit Operations of Food/Biomaterials Processing Laboratory	1
ABE	763	Instrumentation	2	ABE	763	Instrumentation	2
ABE	763L	Instrumentation Laboratory	1	ABE	763L	Instrumentation Laboratory	1
ABE	771	Graduate Seminar	1	ABE	771	Graduate Seminar	1
		Other elective courses from outside the department (such as in Computer Science, Math, Physics or another engineering department or another supporting department) may be used only if: (1) 500-level or higher, (2) they support a coherent plan of study, and (3) they are approved by the Major Advisor and Graduate School.				Other elective courses from outside the department (such as in Computer Science, Math, Physics or another engineering department or another supporting department) may be used only if: (1) 500-level or higher, (2) they support a coherent plan of study, and (3) they are approved by the Major Advisor and Graduate School.	
		Select one of the following:				Select one of the following:	
		<i>Option A: Thesis</i>				<i>Thesis</i>	
ABE	798	Thesis	5-8	ABE	798	Thesis	5-7
		Electives	9-12			Electives	10-12
		<i>Option B: Research/Design Paper</i>				<i>Non-Thesis</i>	
ABE	788	Research Problems/Projects	2-3	ABE	788	Research Problems/Projects	2-3
		Electives	16-17			Electives	17
Total number of hours required for degree				Total number of hours required for degree			
Option A			30	Thesis			30
Option B			32	Non-Thesis			30

8. Explanation of the Change:

The SDSU Graduate School has revised SDSU Policy 2:17 Credit Requirements for Graduate Credential Programs. The Graduate School adjusted the language to no longer refer to master's programs using Option A (Thesis Option), B (Research/Design Paper Option), C (Coursework Only), and D (Coursework Only – Professional Program) but to move forward with Thesis and Non-Thesis options that will require a minimum of 30 credits. The Department of Agricultural & Biosystems Engineering has requested to change the non-thesis option from 32 credits (Option B) to 30 credits.