



**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:	Operations Management
CURRENT SPECIALIZATION:	NA
CIP CODE:	15.1501
UNIVERSITY DEPARTMENT:	Ness School of Management & Economics
BANNER DEPARTMENT CODE:	SSME
UNIVERSITY COLLEGE:	Arts, Humanities & Social Sciences
BANNER COLLEGE CODE:	3S

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

4/24/2024

Vice President of Academic Affairs or
President of the University

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) |
| <input type="checkbox"/> Modification requiring Board of Regents approval
<i>Must have prior approval from Executive Director or designee</i> | |

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:

Following approval of the curriculum, the collaborating institutions will be contacted to update articulation agreements.

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			30-31
Systems General Education Requirements- Electives			9	Systems General Education Requirements- Electives			18
						SGR #1 Written Communication	3
						SGR #1 Written 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
Systems General Education Requirements - Required			23	Systems General Education Requirements - Required			12-13
ENGL	101	Composition I (SGR #1)	3	ENGL	101	Composition I (SGR #1)	3
ENGL	277	Technical Writing in Engineering (SGR #1)	3	ENGL	277	Technical Writing in Engineering (SGR #1)	3
CMST	101	Foundations of Communication (SGR #2)	3	CMST	101	Foundations of Communication (SGR #2)	3
ECON	201	Principles of Microeconomics (3) (SGR #3)	3	ECON	201	Principles of Microeconomics (SGR #3) (Major Requirement)	--
MATH	114	College Algebra (SGR #5)	3	MATH	114	College Algebra (SGR #5)	3
				MATH	121/L	Survey of Calculus (4, 1) (SGR #5)	4-5
				MATH	123	Calculus I (4) (SGR #5)	
CHEM	106	Chemistry Survey (SGR #6)	3	CHEM	106	Chemistry Survey (SGR #6)	3
CHEM	106L	Chemistry Survey Lab (SGR #6)	1	CHEM	106L	Chemistry Survey Lab (SGR #6)	1
PHYS	101	Survey of Physics (SGR #6)	3	PHYS	101	Survey of Physics (SGR #6)	3
PHYS	101L	Survey of Physics Lab (SGR #6)	1	PHYS	101L	Survey of Physics Lab (SGR #6)	1
Major Requirements			65	Major Requirements			89-90
				ACCT	210	Principles in Accounting I	3
CM	130	Management Tools and Analysis	3	CM	130	Management Tools and Analysis	3
CSC	325	Management Information Systems	3	CSC	325	Management Information Systems	3
				ECON	119	First Year Seminar (1)	1
				or			
				GE	101	Introduction to Engineering & Technical Profession (1)	
ECON	201	Principles of Microeconomics (SGR #3)	--	ECON	201	Principles of Microeconomics (SGR #3)	3
				ECON	202	Principles of Macroeconomics	3
				ECON	319	Seminar with Industry Leaders	1
ET	210	Introduction to Electronic Systems	3	ET	210	Introduction to Electronic Systems	3
ET	210L	Introduction to Electronic Systems Lab	1	ET	210L	Introduction to Electronic Systems Lab	1
ET	451	Industrial Controls and PLCs	2	ET	451	Industrial Controls and PLCs	2
ET	451L	Industrial Controls and PLCs Lab	1	ET	451L	Industrial Controls and PLCs Lab	1
				GE	121	Engineering Design Graphics	1
				GE	123	Computer Aided Drawing	1
				GE	231	Technology Society & Ethics	3
GE	425	Occupational Safety and Health Management	3	GE	425	Occupational Safety and Health Management	3
HRM	460	Human Resource Management (3)	3	HRM	460	Human Resource Management (3)	3
OR				OR			
LDR	435	Organizational Leadership & Team Development (3)		LDR	435	Organizational Leadership & Team Development (3)	
BADM	360	Organization and Management (3)	3	MGMT	360	Organization and Management	3
OR				OR			
GE	385	Intro to Systems Engineering & Management (3)		GE	385	Intro to Systems Engineering & Management	
MNET	367	Production Strategy	2	MNET	367	Production Strategy	2

Existing Curriculum

Proposed Curriculum (*highlight changes*)

Pref.	Num.	Title	Cr. Hrs.	Pref.	Num.	Title	Cr. Hrs.
MNET	367L	Production Strategy Lab	1	MNET	367L	Production Strategy Lab	1
MNET /OM	460	Engineering Economic Analysis	3	MNET/ OM	460	Engineering Economic Analysis	3
				MNET	468	Manufacturing Plant Management	3
OM	240	Decision Making Processes in Management	3	OM	240	Decision Making Processes in Management	3
OM	462	Quality Management	3	OM	462	Quality Management	3
OM	463	Supply Chain Management	3	OM	463	Supply Chain Management	3
OM	470	Project Management	2	GE	470	Project Management	2
OM	471	Capstone Experience	2	GE	471	Capstone Experience	2
OM	490	Seminar	1	OM	490	Seminar	1
OM	494	Internship (<i>Electronics Emphasis: 1 credit required; Manufacturing Emphasis: 2 credits required</i>)	1-2	OM	494	Internship (<i>Electronics Emphasis: 1 credit required; Manufacturing Emphasis: 2 credits required</i>)	1-2
				STAT	281	Introduction to Statistics	3
						Technical Electives	2-4
		Select one emphasis:	21-22			Select one emphasis:	22-23
		Electronics Emphasis	22			Electronics Emphasis	22-23
ET	220	Analog Electronics	3	ET	220	Analog Electronics	3
ET	220L	Analog Electronics Lab	1	ET	220L	Analog Electronics Lab	1
ET	232	Digital Electronics and Microprocessors	2	ET	232	Digital Electronics and Microprocessors	2
ET	232L	Digital Electronics and Microprocessors Lab	1	ET	232L	Digital Electronics and Microprocessors Lab	1
ET	330	Microcontrollers and Networks	2	ET	330	Microcontrollers and Networks	2
ET	330L	Microcontrollers and Networks Lab	1	ET	330L	Microcontrollers and Networks Lab	1
ET	380	Circuit Boards and Design	2	ET	380	Circuit Boards and Design	2
ET	380L	Circuit Boards and Design Lab	1	ET	380L	Circuit Boards and Design Lab	1
FIN OR MNET	310 468	Business Finance Manufacturing Plant Management	3	FIN OR MNET	310 468	Business Finance Manufacturing Plant Management	3
				MKTG OR BLAW	370 350	Marketing (3) Legal Environment of Business (3)	3
OM OR OM	425 465	Production/Operations Management (3) Quality Control Applications (3)	3	OM OR OM	425 465	Production/Operations Management (3) Quality Control Applications (3)	3
				OM	494	Internship	1
		Technical Electives	3			Technical Electives	2-3
		Manufacturing Emphasis	21			Manufacturing Emphasis	22-23
				BLAW	350	Legal Environment of Business	3
FIN OR Tech. Elect.	310	Business Finance (3) OR Technical Elective (3)	3	FIN OR Tech. Elect.	310	Business Finance (3) OR Technical Elective (3)	3
				MKTG	370	Marketing	3
MNET	231	Manufacturing Processes I	2	MNET	231	Manufacturing Processes I	2
MNET	231L	Manufacturing Processes I Lab	1	MNET	231L	Manufacturing Processes I Lab	1
MNET	468	Manufacturing Plant Management	3	MNET	468	Manufacturing Plant Management	3
OM	425	Production/Operations Management	3	OM	425	Production/Operations Management	3
OM	465	Quality Control Applications	3	OM	465	Quality Control Applications	3
				OM	494	Internship	2
		Technical Electives	6			Technical Electives	5-6
		Supply Chain Emphasis	21			Supply Chain Management Emphasis	22-23
				BLAW	350	Legal Environment of Business	3

Existing Curriculum

Proposed Curriculum (highlight changes)

Pref.	Num.	Title	Cr. Hrs.	Pref.	Num.	Title	Cr. Hrs.
FIN	310	Business Finance	3	FIN	310	Business Finance	3
OR				OR			
MNET	468	Manufacturing Plant Management		MNET	468	Manufacturing Plant Management	
				MKTG	370	Marketing	3
MNET	231-	Manufacturing Processes I & Lab (3, 0)	3	MNET	231-	Manufacturing Processes I & Lab (2, 1)	3
OR	231L			OR	231L		
ET	232-	Digital Electronics and Microprocessors & Lab (3,0)		ET	232-	Digital Electronics and Microprocessors & Lab (2,1)	
	232L				232L		
OM	415	Logistics & Transportation Management	3	OM	415	Logistics & Transportation Management	3
OM	425	Production/Operations Management	3	OM	425	Production/Operations Management	3
OM	435	Warehouse Management	3	OM	435	Warehouse Management	3
				OM	494	Internship	2
		Technical Electives	6			Technical Electives	2-3
Supporting Coursework			23	Supporting Coursework			0
ACCT	210	Principles in Accounting I	3	ACCT	210	Principles in Accounting I	3
GE	101	Introduction to Engineering & Technical Profession	1	GE	101	Introduction to Engineering & Technical Profession	1
GE	121	Engineering Design Graphics	1	GE	121	Engineering Design Graphics	1
GE	123	Computer Aided Drawing	1	GE	123	Computer Aided Drawing	1
GE	231	Technology Society & Ethics	3	GE	231	Technology Society & Ethics	3
MATH	121	Survey of Calculus	4	MATH	121	Survey of Calculus	4
MATH	121L	Survey of Calculus Lab	1	MATH	121L	Survey of Calculus Lab	1
STAT	281	Introduction to Statistics	3	STAT	281	Introduction to Statistics	3
		Technical Electives	6			Technical Electives	6
Electives			0	Electives			0
Summary of Credits Operations Management (B.S.)							
System General Education Requirements			32	System General Education Requirements			30-31
Major Requirements			65	Major Requirements			89-90
Supporting Coursework			23	Supporting Coursework			0
Electives			0	Electives			0
Total number of hours required for major			111	Total number of hours required for major			101-103
Total number of hours required for degree			120	Total number of hours required for degree			120

8. Explanation of the Change:

The curriculum has been aligned with core courses in the Ness School of Management and Economics in order to meet assessment and curriculum expectations for AACSB accreditation.