



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

Institutional Substantive Program Modification Requests

Institution: South Dakota School of Mines & Technology **Date:** 05/09/2018

Institutional representatives should provide direct links to PDF documents for each of the program modification requests represented below. All requests should be posted on the campus Curriculum and Instruction website one week prior to the Academic Affairs Council meeting where the program modification request is being considered.

	<i>Approval</i>
Physics, BS	PT
Chemical Engineering, MS (Thesis and Non-Thesis)	PT
Materials Engineering and Science, MS	PT
Geology, Geological Engineering and Mining Engineering, PhD	PT
Mining and Engineering Management, MS	PT

Program modifications referenced above for approval have been reviewed by the Academic Affairs Council and the System Vice President for Academic Affairs and may be advanced forward for entry in Colleague. For those program modifications listed above that did not receive approval, additional clarification or justification will be necessary and should be re-routed through the review process on a separate “Institutional Substantive Program Modification Requests” form once all issues have been resolved.

Paul Turner

Signature: System Vice President for Academic Affairs

6/19/2018

Date



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

Substantive Program Modification Form

Use this form to request minor changes in existing programs (majors, minors, certificates, or specializations).

UNIVERSITY:	SDSM&T
CURRENT PROGRAM TITLE:	Physics B.S
CIP CODE:	40.0801
UNIVERSITY DEPARTMENT:	Undergraduate Program in Physics (Department of Physics)
UNIVERSITY DIVISION:	NA

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.

<hr style="border: 0; border-top: 1px solid black;"/> Vice President of Academic Affairs or President of the University	Click here to enter a date. <hr style="border: 0; border-top: 1px solid black;"/> Date
--	--

1. This modification addresses a change in (place an "X" in the appropriate box):

- | | |
|---|--|
| <input 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 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) |

Changes of two courses in B.S. Physics Program.

2. Effective date of change: 8/20/2018

3. Program Degree Level (place an "X" in the appropriate box):

Associate Bachelor's Master's Doctoral

4. Category (place an "X" in the appropriate box):

Certificate Specialization Minor Major

5. If a name change is proposed, the change will occur (place an "X" in the appropriate box):

- 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 (add lines or adjust cell size as needed):

<i>Existing Curriculum</i>				<i>Proposed Curriculum (highlight changes)</i>			
Pref.	Num.	Title	Cr. Hrs.	Pref.	Num.	Title	Cr. Hrs.
CENG	244/244L	Intro to Digital Systems	4			Math/Physics/Comp. Sci./Chem. Electives	4
MATH	432	Partial Differential Equations	3			Math/Physics/Comp. Sci./Chem. Electives	3
EE	220/220L	Circuits	4			Math/Physics/Comp. Sci./Chem. Electives	4
Total number of hours required for major, minor, or specialization				Total number of hours required for major, minor, or specialization			
Total number of hours required for degree			120	Total number of hours required for degree			120

7. Explanation of the Change:

The content of CENG 244/244L and EE 220/220L courses is not used in any of the courses for BS Physics Program. The departmental decision has been made to remove these courses from the program substituting them by the increased number of credits for elective courses. The course MATH 432 is not needed for all BS Physics majors as a required course. The decision of Physics Department was to have this course as elective for those specializations within BS Physics Program that will actually need this course.

SOUTH DAKOTA SCHOOL OF MINES & TECHNOLOGY

Affected Departments Form

The purpose of this document is to ensure that curriculum changes in one department that alter courses required or commonly taken by other departments get timely notification and the ability to discuss the changes with the originating department if necessary.

This document applies (1) to changes to existing courses and (2) to program-level curriculum changes. New course requests do not typically have an effect on other departments, except through program-level curriculum change.

1. Changes to Existing Courses

No students from other departments take this course

No further action is needed.

No other departments require this course, but students from other departments take this course

From which departments _____

In general, such a change is relatively minor to the affected department, typically being related to inclusion of the course in a list of courses from which some number of courses must be selected.

Please attach documents showing notification and any response from the affected department. If no response has been received within 5 working days during the spring or fall semester this may be treated as agreement with the change.

Other departments require this course

Which departments: Department of Chemical and Biological Engineering, Department of Mathematics and Computer Science, Department of Electrical and Computer Engineering.

In general, such a change can be a major alteration to the affected department, and, as such, significant discussion may occur.

Please attach documents showing notification and any response from the affected department. If no response has been received within 5 working days this may be treated as agreement with the change.

NOTE: If more than three (3) departments require this course, notification and discussion through ALC/Department Head meetings should occur, so that noting when the change was discussed at such meetings is sufficient.

2. Program Level Curriculum Changes

Program level changes can affect other departments, for instance with respect to staffing levels, removing a required course from your curriculum or adding/removing a course in a list of possible electives can affect how many course sections are needed

- Course changes do not affect any other departments

No further action is needed.

- Course changes affect other departments through changes in elective courses

Which departments _____

In general, such a change is relatively minor to the affected department but may still have minor affects.

Please attach documents showing notification and any response from the affected department. If no response has been received within 5 working days during the spring or fall semester this may be treated as agreement with the change.

- Course changes affect other departments through changes in required courses

Which departments _____

In general, such a change can be a major alteration to the affected department, and, as such, significant discussion may occur.

Please attach documents showing notification and any response from the affected department. If no response has been received within 5 working days this may be treated as agreement with the change.

NOTE: If more than three (3) departments require this course, notification and discussion through ALC/Department Head meetings should occur, so that noting when the change was discussed at such meetings is sufficient.



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

Substantive Program Modification Form

Use this form to request minor changes in existing programs (majors, minors, certificates, or specializations).

UNIVERSITY:	SDSM&T
CURRENT PROGRAM TITLE:	Chemical Engineering M.S. (Thesis and Non-Thesis)
CIP CODE:	
UNIVERSITY DEPARTMENT:	Chemical and Biological Engineering
UNIVERSITY DIVISION:	

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.

<hr style="border: none; border-top: 1px solid black;"/> Vice President of Academic Affairs or President of the University	Click here to enter a date. <hr style="border: none; border-top: 1px solid black;"/> Date
---	---

1. This modification addresses a change in (place an "X" in the appropriate box):

- | | |
|--|---|
| <input checked="" type="checkbox"/> Total credits required within the discipline | <input checked="" type="checkbox"/> Total credits of supportive course work |
| <input checked="" 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: 8/1/2018

3. Program Degree Level (place an "X" in the appropriate box):

Associate Bachelor's Master's Doctoral

4. Category (place an "X" in the appropriate box):

Certificate Specialization Minor Major

5. If a name change is proposed, the change will occur (place an "X" in the appropriate box):

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 (add lines or adjust cell size as needed):

<i>Existing Curriculum</i>				<i>Proposed Curriculum (highlight changes)</i>			
Pref.	Num.	Title	Cr. Hrs.	Pref.	Num.	Title	Cr. Hrs.
		Program requirements for Thesis MS Chemical Engineering option	30			Program requirements for Thesis MS Chemical Engineering option	30
CBE	550	Systems Analysis Applied to Chemical Engineering	3	CBE	605	Applied Chemical Engineering Mathematics	3
CBE	612	Transport Phenomena: Momentum	3	CBE	611	Chemical Engineering Transport Phenomena	3
CBE	613	Transport Phenomena: Heat	3	CBE	544	Advanced Reactor Design	3
CBE	621	Advanced Chemical Engineering Thermodynamics	3	CBE	621	Advanced Chemical Engineering Thermodynamics	3
CBE	544	Advanced Reactor Design	3	CBE	790	Seminar	1
MES	728	Heterogeneous Kinetics	3				
CBE	616	Computations in Transport Phenomena	3	CBE	788	Non-Thesis Project	2
	Or	Or		CBE	Xxx	Chemical Engineering Course Electives	6
MATH	432	Partial Differential Equations	3	XXX	Xxx	Additional Electives	5
	Or	Or					
IENG	486	Statistical Quality and Process Control	3	MES	728	Heterogeneous Kinetics	3
CBE	790	Seminar	1				
Xxx	Xxx	Electives	5	MATH	432	Partial Differential Equations	3
CBE	798	Thesis Research	6	IENG	486	Statistical Quality and Process Control	3

		Program requirements for NON-Thesis MS Chemical Engineering option	32			Program requirements for NON-Thesis MS Chemical Engineering option	32
CBE	550	Systems Analysis Applied to Chemical Engineering		CBE	605	Applied Chemical Engineering Mathematics	3
CBE	612	Transport Phenomena: Momentum		CBE	611	Chemical Engineering Transport Phenomenon	3
CBE	613	Transport Phenomena: Heat		CBE	544	Advanced Reactor Design	3
CBE	621	Advanced Chemical Engineering Thermodynamics		CBE	621	Advanced Chemical Engineering Thermodynamics	3
CBE	544 Or MES 728	Advanced Reactor Design Heterogeneous Kinetics		CBE	790	Seminar	1
CBE	616 Or	Computations in Transport Phenomena		CBE	788	Non-Thesis Project	2
MATH	432 Or	Partial Differential Equations		CBE	Xxx	Chemical Engineering Course Electives	9
IENG	486	Statistical Quality and Process Control		XXX	Xxx	Additional Electives	8
CBE	790	Seminar		MES	728	Heterogeneous Kinetics	3
ENGM	XXX	Engineering Management Elective		MATH	432	Partial Differential Equations	3
Xxx	Xxx	Electives		IENG	486	Statistical Quality and Process Control	3
CBE	788	Thesis Research					
Total number of hours required for major, minor, or specialization			N/A	Total number of hours required for major, minor, or specialization			N/A
Total number of hours required for degree			30 /32	Total number of hours required for degree			30 /32

7. Explanation of the Change:

The proposed changes are meant to simplify and better align our MS Chemical Engineering and Accelerated MS Chemical Engineering thesis and non-thesis options to a common set of requirements with a more frequent offering sequence. The new core set of classes will be offered on a more frequent (once per year) basis rather than a once per two year basis as they are now. This will ensure that all students completing the program will have a common knowledge base within a well-defined sequence of the course curriculum. There will less frequent situations when students need a class but it is not being offered on a timely basis.

SOUTH DAKOTA SCHOOL OF MINES & TECHNOLOGY
Affected Departments Form

1. Affected Departments

Which departments will the requested change affect? Does the requested change affect the delivery of another course or the requirements of another degree program? Please specify.

MES 728, MATH 432 AND IENG 486 ARE TAUGHT INDEPENDENTLY OUTSIDE OF CBE REQUIREMENTS. THESE CLASSES WILL STILL BE ALLOWED AND ENCOURAGED AS ELECTIVES WITHIN THE EXPANDED NUMBER OF ELECTIVE CREDITS AS PART OF THE NEW MS PROGRAM.

2. Number of Students Affected

Approximately how many students will be affected annually by the requested change? How was this number determined?

The new MS curriculum will affect approximately 10 students per year as new incoming students enter within the revised requirements.

3. Notification

Please notify all affected department heads and program coordinators, and attach all relevant correspondence and related documents.

IENG – Dr. Jeffrey Woldstad

Math – Dr. Kyle Riley

MES – Dr. Jon Kellar

From: Woldstad, Jeffrey C.
Sent: Monday, March 12, 2018 10:17 AM
To: Winter, Robb M. <Robb.Winter@sdsmt.edu>
Subject: Re: RESPONSE NEEDED: Change in ChE MS - affected department form

Robb,
We have no objection to this change.
Jeff W

--

Jeffrey C Woldstad, PhD, PE
Professor and Head
Department of Industrial Engineering
South Dakota School of Mines and Technology
Jeffrey.Woldstad@sdsmt.edu
605-394-2628

From: "Winter, Robb M." <Robb.Winter@sdsmt.edu>
Date: Friday, March 9, 2018 at 10:49 AM
To: "Woldstad, Jeffrey C." <Jeff.Woldstad@sdsmt.edu>, "Riley, Kyle L." <Kyle.Riley@sdsmt.edu>, "Kellar, Jon J." <Jon.Kellar@sdsmt.edu>
Subject: RESPONSE NEEDED: Change in ChE MS - affected department form

Jeff, Jon and Kyle,
We are making some changes to our ChE MS which will possibly impact your departments because of the courses we allow for our MS from your programs.

Please let me know if you approve or disapprove. If you have questions, please let me know. It would be great if you can let me know today.

Thank you,
Robb

Robb M. Winter, Ph.D.

Department Head and Professor of Chemical Engineering
Department of Chemical and Biological Engineering, Room CBC 2202A
South Dakota School of Mines and Technology
501 East St. Joseph Street
Rapid City, SD 57701-3995
605-394-1237 (Voice)
robb.winter@sdsmt.edu
<http://cbe.sdsmt.edu/winter/winter.htm>

From: Riley, Kyle L.

Sent: Friday, March 9, 2018 1:57 PM

To: Winter, Robb M. <Robb.Winter@sdsmt.edu>

Subject: RE: RESPONSE NEEDED: Change in ChE MS - affected department form

Hi Robb,

I don't think the affected department form requires my vote. I don't see any reason to vote against your proposal. I believe the actual vote takes place in the university curriculum committee and I have already informed our committee members about the issue and also advised that I don't see any reason to vote against the proposal, but I don't control how they vote. I would guess they would support it given the information that I have.

Kyle

From: Kellar, Jon J.
Sent: Friday, March 9, 2018 12:03 PM
To: Winter, Robb M. <Robb.Winter@sdsmt.edu>
Subject: RE: RESPONSE NEEDED: Change in ChE MS - affected department form

Robb:

Approve.

Jon

From: Winter, Robb M.
Sent: Friday, March 09, 2018 10:50 AM
To: Woldstad, Jeffrey C.; Riley, Kyle L.; Kellar, Jon J.
Subject: RESPONSE NEEDED: Change in ChE MS - affected department form
Importance: High

Jeff, Jon and Kyle,

We are making some changes to our ChE MS which will possibly impact your departments because of the courses we allow for our MS from your programs.

Please let me know if you approve or disapprove. If you have questions, please let me know. It would be great if you can let me know today.

Thank you,
Robb

Robb M. Winter, Ph.D.

Department Head and Professor of Chemical Engineering
Department of Chemical and Biological Engineering, Room CBC 2202A
South Dakota School of Mines and Technology
501 East St. Joseph Street
Rapid City, SD 57701-3995
605-394-1237 (Voice)
robb.winter@sdsmt.edu
<http://cbe.sdsmt.edu/winter/winter.htm>



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

Substantive Program Modification Form

Use this form to request minor changes in existing programs (majors, minors, certificates, or specializations).

UNIVERSITY:	SDSM&T
CURRENT PROGRAM TITLE:	Materials Engineering and Science
CIP CODE:	
UNIVERSITY DEPARTMENT:	Materials Engineering and Science Program
UNIVERSITY DIVISION:	

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.

<hr/> Vice President of Academic Affairs or President of the University	Click here to enter a date. <hr/> Date
--	--

1. This modification addresses a change in (place an "X" in the appropriate box):

- | | |
|---|--|
| <input 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 type="checkbox"/> Total credits required for program |
| <input type="checkbox"/> Program name | <input type="checkbox"/> Existing specialization |
| <input type="checkbox"/> CIP Code | <input checked="" type="checkbox"/> Other (explain below) |

2. Effective date of change: 8/1/2018

3. Program Degree Level (place an "X" in the appropriate box):

Associate Bachelor's Master's Doctoral

4. Category (place an "X" in the appropriate box):

Certificate Specialization Minor Major

5. If a name change is proposed, the change will occur (place an “X” in the appropriate box):

- 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 (add lines or adjust cell size as needed):

<i>Existing Curriculum</i>				<i>Proposed Curriculum (highlight changes)</i>			
Pref.	Num.	Title	Cr. Hrs.	Pref.	Num.	Title	Cr. Hrs.
MES	788	Master’s Research Problems/Projects (required)	2-6	MES	788	Master’s Research Problems/Projects (optional)	3
Total number of hours required for major, minor, or specialization				Total number of hours required for major, minor, or specialization			
Total number of hours required for degree			32	Total number of hours required for degree			32

7. Explanation of the Change:

The change would only apply to the non-thesis option within the M.S. degree program. The change will eliminate the need for required MES 788 credits (non-thesis project). Students will be able to complete the non-thesis option with coursework only (32 credits), or opt to take a maximum of 3 credits of MES 788 toward their degree.

SOUTH DAKOTA SCHOOL OF MINES & TECHNOLOGY
Affected Departments Form

The purpose of this document is to ensure that curriculum changes in one department that alter courses required or commonly taken by other departments get timely notification and the ability to discuss the changes with the originating department if necessary.

This document applies (1) to changes to existing courses and (2) to program-level curriculum changes. New course requests do not typically have an effect on other departments, except through program-level curriculum change.

1. Changes to Existing Courses

- No students from other departments take this course

No further action is needed.

- No other departments require this course, but students from other departments take this course

From which departments _____

In general, such a change is relatively minor to the affected department, typically being related to inclusion of the course in a list of courses from which some number of courses must be selected.

Please attach documents showing notification and any response from the affected department. If no response has been received within 5 working days during the spring or fall semester this may be treated as agreement with the change.

- Other departments require this course

Which departments _____

In general, such a change can be a major alteration to the affected department, and, as such, significant discussion may occur.

Please attach documents showing notification and any response from the affected department. If no response has been received within 5 working days this may be treated as agreement with the change.

NOTE: If more than three (3) departments require this course, notification and discussion through ALC/Department Head meetings should occur, so that noting when the change was discussed at such meetings is sufficient.

2. Program Level Curriculum Changes

Program level changes can affect other departments, for instance with respect to staffing levels, removing a required course from your curriculum or adding/removing a course in a list of possible electives can affect how many course sections are needed

- Course changes do not affect any other departments

No further action is needed.

- Course changes affect other departments through changes in elective courses

Which departments _____

In general, such a change is relatively minor to the affected department but may still have minor affects.

Please attach documents showing notification and any response from the affected department. If no response has been received within 5 working days during the spring or fall semester this may be treated as agreement with the change.

- Course changes affect other departments through changes in required courses

Which departments _____

In general, such a change can be a major alteration to the affected department, and, as such, significant discussion may occur.

Please attach documents showing notification and any response from the affected department. If no response has been received within 5 working days this may be treated as agreement with the change.

NOTE: If more than three (3) departments require this course, notification and discussion through ALC/Department Head meetings should occur, so that noting when the change was discussed at such meetings is sufficient.



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

Substantive Program Modification Form

Use this form to request minor changes in existing programs (majors, minors, certificates, or specializations).

UNIVERSITY:	Choose an item.
CURRENT PROGRAM TITLE:	Geology, Geological Engineering and Mining Engineering Ph.D.
CIP CODE:	
UNIVERSITY DEPARTMENT:	Geology & Geological Engineering / Mining Engineering & Management
UNIVERSITY DIVISION:	

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.

<hr/> Vice President of Academic Affairs or President of the University	Click here to enter a date. <hr/> Date
--	--

1. This modification addresses a change in (place an "X" in the appropriate box):

- | | |
|---|---|
| <input 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 type="checkbox"/> Total credits required for program |
| <input type="checkbox"/> Program name | <input type="checkbox"/> Existing specialization |
| <input type="checkbox"/> CIP Code | <input checked="" type="checkbox"/> Other (explain below)
Delete 2 required courses. |

2. Effective date of change: 8/20/2018

3. Program Degree Level (place an "X" in the appropriate box):

Associate Bachelor's Master's Doctoral

4. Category (place an "X" in the appropriate box):

Certificate Specialization Minor Major

5. If a name change is proposed, the change will occur (place an "X" in the appropriate box):

- 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 (add lines or adjust cell size as needed):

<i>Existing Curriculum</i>				<i>Proposed Curriculum (highlight changes)</i>			
Pref.	Num.	Title	Cr. Hrs.	Pref.	Num.	Title	Cr. Hrs.
						These courses will be deleted from the list of required courses for the Mining Engineering Ph.D. specialization:	
				MEM	700	Developing & Planning Research	1
				MEM	790	Seminar	2
						Change the required number of MEM electives from 12 credits to 15 credits to account for the 3 credits being deleted above.	
Total number of hours required for major, minor, or specialization				Total number of hours required for major, minor, or specialization			No change
Total number of hours required for degree				Total number of hours required for degree			No change

7. Explanation of the Change:

The Mining Engineering PhD specialization requires the graduate students to take GEOL/CEE/AES 808 for 3-credits. The GEOL 808 course covers many of the same topics and concepts as MEM 700 and MEM 790, so eliminating MEM 700 and MEM 790 as required courses eliminates redundancy in the curriculum. With the elimination of those courses, we would require students to take 3 additional credits of MEM courses in their program.

SOUTH DAKOTA SCHOOL OF MINES & TECHNOLOGY
Affected Departments Form

1. Affected Departments

Which departments will the requested change affect? Does the requested change affect the delivery of another course or the requirements of another degree program? Please specify.

No departments will be affected by the program modification.

2. Number of Students Affected

Approximately how many students will be affected annually by the requested change? How was this number determined?

The change will affect 4-5 students. This is the number of current PhD students in the MEM Department.

3. Notification

Please notify all affected department heads and program coordinators, and attach all relevant correspondence and related documents.

From: Roberts, Lance A.
Sent: Monday, March 19, 2018 1:58 PM
To: Price, Maribeth H.
Subject: FW: change to specialization

Dean Price –

See below.

Thanks!

Lance A. Roberts, Ph.D., P.E.
South Dakota School of Mines and Technology

From: Anderson, Laurie C.
Sent: Monday, March 19, 2018 12:53 PM
To: Roberts, Lance A. <Lance.Roberts@sdsmt.edu>
Subject: change to specialization

Dear Dr. Roberts:

The GGE Department approves of your requested change to the Geology, Geological Engineering, and Mining Engineering Ph.D. program. The change would eliminate MEM 700 and MEM 790 as required courses in the Mining Engineering specialization.

Sincerely,

Laurie C. Anderson

--

Laurie C. Anderson
Head and Professor, Geology & Geological Engineering
Director, Museum of Geology
South Dakota School of Mines and Technology
501 E. St. Joseph
Rapid City, SD 57701
605-394-1290 (department office)
605-394-1212 (museum office)
Laurie.Anderson@sdsmt.edu



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

Substantive Program Modification Form

Use this form to request minor changes in existing programs (majors, minors, certificates, or specializations).

UNIVERSITY:	SDSM&T
CURRENT PROGRAM TITLE:	MS – Mining Engineering and Management
CIP CODE:	
UNIVERSITY DEPARTMENT:	Mining Engineering and Management
UNIVERSITY DIVISION:	

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.

<hr style="border: 0; border-top: 1px solid black;"/> Vice President of Academic Affairs or President of the University	Click here to enter a date. <hr style="border: 0; border-top: 1px solid black;"/> Date
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1. This modification addresses a change in (place an "X" in the appropriate box):

- | | |
|---|--|
| <input type="checkbox"/> Total credits required within the discipline | <input 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 checked="" type="checkbox"/> Other (explain below) |

Add a required course to the program. This course is not, however, required of all students.

2. Effective date of change: 8/20/2018

3. Program Degree Level (place an "X" in the appropriate box):

- Associate Bachelor's Master's Doctoral

4. Category (place an "X" in the appropriate box):

- Certificate Specialization Minor Major

5. If a name change is proposed, the change will occur (place an “X” in the appropriate box):

- 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 (add lines or adjust cell size as needed):

<i>Existing Curriculum</i>				<i>Proposed Curriculum (highlight changes)</i>			
Pref.	Num.	Title	Cr. Hrs.	Pref.	Num.	Title	Cr. Hrs.
				The following course will be required (see note below)*			
				MEM	501	Fundamentals of the Minerals Industry	3
Total number of hours required for major, minor, or specialization				Total number of hours required for major, minor, or specialization			No change
Total number of hours required for degree				Total number of hours required for degree			No change

*Students entering the program with a bachelor’s degree in an engineering field outside of mining engineering or with a bachelor’s degree in geology and that have less than 3 years of mining industry experience must take this course. In addition, students entering the program with a bachelor’s degree in an area other than engineering or geology and that have less than 8 years of mining industry experience must take this course.

7. Explanation of the Change:

This course will provide students that do not have a Bachelor of Science degree in mining engineering with an introduction to the mining and minerals industry including terminology, processes and unit operations, exploration, mineral economics, and technology. As described above, those students that do not have a Bachelor of Science degree in mining engineering, but that possess sufficient experience in the mining industry, will not be required to take the course.

SOUTH DAKOTA SCHOOL OF MINES & TECHNOLOGY
Affected Departments Form

The purpose of this document is to ensure that curriculum changes in one department that alter courses required or commonly taken by other departments get timely notification and the ability to discuss the changes with the originating department if necessary.

This document applies (1) to changes to existing courses and (2) to program-level curriculum changes. New course requests do not typically have an effect on other departments, except through program-level curriculum change.

1. Changes to Existing Courses

- No students from other departments take this course

No further action is needed.

- No other departments require this course, but students from other departments take this course

From which departments _____

In general, such a change is relatively minor to the affected department, typically being related to inclusion of the course in a list of courses from which some number of courses must be selected.

Please attach documents showing notification and any response from the affected department. If no response has been received within 5 working days during the spring or fall semester this may be treated as agreement with the change.

- Other departments require this course

Which departments _____

In general, such a change can be a major alteration to the affected department, and, as such, significant discussion may occur.

Please attach documents showing notification and any response from the affected department. If no response has been received within 5 working days this may be treated as agreement with the change.

NOTE: If more than three (3) departments require this course, notification and discussion through ALC/Department Head meetings should occur, so that noting when the change was discussed at such meetings is sufficient.

2. Program Level Curriculum Changes

Program level changes can affect other departments, for instance with respect to staffing levels, removing a required course from your curriculum or adding/removing a course in a list of possible electives can affect how many course sections are needed

- Course changes do not affect any other departments

No further action is needed.

- Course changes affect other departments through changes in elective courses

Which departments _____

In general, such a change is relatively minor to the affected department but may still have minor affects.

Please attach documents showing notification and any response from the affected department. If no response has been received within 5 working days during the spring or fall semester this may be treated as agreement with the change.

- Course changes affect other departments through changes in required courses

Which departments _____

In general, such a change can be a major alteration to the affected department, and, as such, significant discussion may occur.

Please attach documents showing notification and any response from the affected department. If no response has been received within 5 working days this may be treated as agreement with the change.

NOTE: If more than three (3) departments require this course, notification and discussion through ALC/Department Head meetings should occur, so that noting when the change was discussed at such meetings is sufficient.