

## LEVEL I APPROVAL MEMORANDUM

---

Compiled here is the Level I memorandum containing items approved since the November 2019 Board of Regents Meeting. This memorandum from October 2019 to January 2020 contains items for which approval authority has been designated by the Board of Regents to the individual institutions or the Commissioner of Higher Education. The items before you have been approved and are now being shared with you for your notification.

- October 2019 Level I Memorandum
- November 2019 Level I Memorandum
- December 2019 Level I Memorandum
- January 2020 Level I Memorandum

## LEVEL I MEMORANDUM

---

**DATE:** Oct. 29, 2019

**TO:** Chief Academic Officers, Montana University System

**FROM:** Brock Tessman, Deputy Commissioner for Academic, Research, and Student Affairs

**RE:** October 2019 Level I Academic Items

---

Contained within this memorandum are Level I proposals submitted by the institutions of the Montana University System in October 2019. These proposals include items for which approval authority has been designated by the Board of Regents to the individual institutions or the Commissioner of Higher Education. These Level I items are being sent to you for your review. If you have concerns about a particular proposal, you should share those concerns with your colleagues at that institution and try to come to some understanding. If you cannot resolve your concerns, raise them at the Level I Chief Academic Officer's conference call on November 19<sup>th</sup>. Issues not resolved at that meeting should be submitted in writing to OCHE by noon on Friday, November 22<sup>nd</sup>. You will be notified of approved proposals by November 29<sup>th</sup>. The Board of Regents will be notified of the approved proposals at the March 2020 meeting of the Board.

### 1. Campus Approvals

#### **Flathead Valley Community College:**

- Notification of the termination of a C.T.S. in Electronics Technology, Tier II  
[Item #185-301-L11019 | Termination Form](#)
- Notification of the termination of a C.T.S. in Electronics Technology, Tier III  
[Item #185-302-L11019 | Termination Form](#)
- Notification of the termination of a C.T.S. in Electronics Technology, Tier IV  
[Item #185-303-L11019 | Termination Form](#)

#### **Helena College University of Montana:**

- Notification of placement of Administrative Support Management credentials (2 AAS; 3 CAS) into moratorium  
[Item #185-1906-LI1119 | Request Form | Moratorium Form](#)

October 2019

**ITEM 185-301-L11019**

**Item Name**

Notification of the termination of a C.T.S. in Electronics Technology, Tier II

---

**THAT**

Flathead Valley Community College is notifying the Montana Board of Regents of the termination of a 16-credit certificate of technical studies in Electronics Technology.

---

**EXPLANATION**

This certificate has no enrollment, as students are choosing to earn the program's CAS or AAS degrees instead of the individual tiers.

---

**ATTACHMENTS**

Academic Proposal Request Form

**Montana Board of Regents**  
**ACADEMIC PROPOSAL REQUEST FORM**

ITEM	185-301-L11019	Submission Month or Meeting:		<b>October 2019</b>
Institution:	<b>Flathead Valley Community College</b>	CIP Code:		<b>47.0105</b>
Program/Center/Institute Title:	<b>Electronics Technician Tier II C.T.S.</b>			
Includes (please specify below):	Online Offering		Options	

Please mark the appropriate type of request and submit with an Item Template and any additional materials, including those listed in parentheses following the type of request. For more information pertaining to the types of requests listed below, how to complete an item request, or additional forms please visit <http://mus.edu/che/arsa/academicproposals.asp>.

**X A. Level I:****Campus Approvals**

1a. Placing a postsecondary educational program into moratorium (Program Termination and Moratorium Form)

1b. Withdrawing a postsecondary educational program from moratorium

2. Establishing, re-titling, terminating or revising a campus certificate of 29 credits or less

3. Establishing a B.A.S./A.A./A.S. area of study

4. Offering an existing postsecondary educational program via distance or online delivery

**OCHE Approvals**

5. Re-titling an existing postsecondary educational program

6. Terminating an existing postsecondary educational program (Program Termination and Moratorium Form)

7. Consolidating existing postsecondary educational programs (Curriculum Proposal Form)

8. Establishing a new minor where there is a major or an option in a major (Curriculum Proposal Form)

9. Revising a postsecondary educational program (Curriculum Proposal Form)

10. Establishing a temporary C.A.S. or A.A.S. degree program *Approval limited to 2 years*

**B. Level II:**

1. Establishing a new postsecondary educational program (Curriculum Proposal and Completed Intent to Plan Form)

**Montana Board of Regents**  
**ACADEMIC PROPOSAL REQUEST FORM**

2. **Permanent authorization for a temporary C.A.S. or A.A.S degree program** (Curriculum Proposal and Completed Intent to Plan Form)
3. **Exceeding the 120 credit maximum for baccalaureate degrees** *Exception to policy 301.11*
4. **Forming, eliminating or consolidating an academic, administrative, or research unit** (Curriculum or Center/Institute Proposal and Completed Intent to Plan Form, except when eliminating or consolidating)
5. **Re-titling an academic, administrative, or research unit**

**Proposal Summary** [360 words maximum]

**What:** Flathead Valley Community College is notifying the Montana Board of Regents of the termination of a 16-credit certificate of technical studies in Electronics Technology.

**Why:** This certificate has no enrollment, as students are choosing to earn the program's CAS or AAS degrees instead of the individual tiers.

October 2019

**ITEM 185-302-L11019**

**Item Name**

Notification of the termination of a C.T.S. in Electronics Technology, Tier III

---

**THAT**

Flathead Valley Community College is notifying the Montana Board of Regents of the termination of a 18-credit certificate of technical studies in Electronics Technology.

---

**EXPLANATION**

This certificate has no enrollment, as students are choosing to earn the program's CAS or AAS degrees instead of the individual tiers.

---

**ATTACHMENTS**

Academic Proposal Request Form

**Montana Board of Regents**  
**ACADEMIC PROPOSAL REQUEST FORM**

ITEM	185-302-L11019	Submission Month or Meeting:		<b>October 2019</b>
Institution:	<b>Flathead Valley Community College</b>	CIP Code:		<b>47.0105</b>
Program/Center/Institute Title:	<b>Electronics Technician Tier III C.T.S.</b>			
Includes (please specify below):	Online Offering		Options	

Please mark the appropriate type of request and submit with an Item Template and any additional materials, including those listed in parentheses following the type of request. For more information pertaining to the types of requests listed below, how to complete an item request, or additional forms please visit <http://mus.edu/che/arsa/academicproposals.asp>.

**X A. Level I:****Campus Approvals**

1a. Placing a postsecondary educational program into moratorium (Program Termination and Moratorium Form)

1b. Withdrawing a postsecondary educational program from moratorium

2. Establishing, re-titling, terminating or revising a campus certificate of 29 credits or less

3. Establishing a B.A.S./A.A./A.S. area of study

4. Offering an existing postsecondary educational program via distance or online delivery

**OCHE Approvals**

5. Re-titling an existing postsecondary educational program

6. Terminating an existing postsecondary educational program (Program Termination and Moratorium Form)

7. Consolidating existing postsecondary educational programs (Curriculum Proposal Form)

8. Establishing a new minor where there is a major or an option in a major (Curriculum Proposal Form)

9. Revising a postsecondary educational program (Curriculum Proposal Form)

10. Establishing a temporary C.A.S. or A.A.S. degree program *Approval limited to 2 years*

**B. Level II:**

1. Establishing a new postsecondary educational program (Curriculum Proposal and Completed Intent to Plan Form)

**Montana Board of Regents**  
**ACADEMIC PROPOSAL REQUEST FORM**

2. **Permanent authorization for a temporary C.A.S. or A.A.S degree program** (Curriculum Proposal and Completed Intent to Plan Form)
3. **Exceeding the 120 credit maximum for baccalaureate degrees** *Exception to policy 301.11*
4. **Forming, eliminating or consolidating an academic, administrative, or research unit** (Curriculum or Center/Institute Proposal and Completed Intent to Plan Form, except when eliminating or consolidating)
5. **Re-titling an academic, administrative, or research unit**

**Proposal Summary** [360 words maximum]

**What:** Flathead Valley Community College is notifying the Montana Board of Regents of the termination of a 18-credit certificate of technical studies in Electronics Technology.

**Why:** This certificate has no enrollment, as students are choosing to earn the program's CAS or AAS degrees instead of the individual tiers.



October 2019

**ITEM 185-303-L11019**

**Item Name**

Notification of the termination of a C.T.S. in Electronics Technology, Tier IV

---

**THAT**

Flathead Valley Community College is notifying the Montana Board of Regents of the termination of a 17-credit certificate of technical studies in Electronics Technology.

---

**EXPLANATION**

This certificate has no enrollment, as students are choosing to earn the program's CAS or AAS degrees instead of the individual tiers.

---

**ATTACHMENTS**

Academic Proposal Request Form

**Montana Board of Regents**  
**ACADEMIC PROPOSAL REQUEST FORM**

ITEM	185-303-L11019	Submission Month or Meeting:		<b>October 2019</b>
Institution:	<b>Flathead Valley Community College</b>	CIP Code:		<b>47.0105</b>
Program/Center/Institute Title:	<b>Electronics Technician Tier IV C.T.S.</b>			
Includes (please specify below):	Online Offering		Options	

Please mark the appropriate type of request and submit with an Item Template and any additional materials, including those listed in parentheses following the type of request. For more information pertaining to the types of requests listed below, how to complete an item request, or additional forms please visit <http://mus.edu/che/arsa/academicproposals.asp>.

**X A. Level I:****Campus Approvals**

1a. Placing a postsecondary educational program into moratorium (Program Termination and Moratorium Form)

1b. Withdrawing a postsecondary educational program from moratorium

2. Establishing, re-titling, terminating or revising a campus certificate of 29 credits or less

3. Establishing a B.A.S./A.A./A.S. area of study

4. Offering an existing postsecondary educational program via distance or online delivery

**OCHE Approvals**

5. Re-titling an existing postsecondary educational program

6. Terminating an existing postsecondary educational program (Program Termination and Moratorium Form)

7. Consolidating existing postsecondary educational programs (Curriculum Proposal Form)

8. Establishing a new minor where there is a major or an option in a major (Curriculum Proposal Form)

9. Revising a postsecondary educational program (Curriculum Proposal Form)

10. Establishing a temporary C.A.S. or A.A.S. degree program *Approval limited to 2 years*

**B. Level II:**

1. Establishing a new postsecondary educational program (Curriculum Proposal and Completed Intent to Plan Form)

**Montana Board of Regents**  
**ACADEMIC PROPOSAL REQUEST FORM**

2. **Permanent authorization for a temporary C.A.S. or A.A.S degree program** (Curriculum Proposal and Completed Intent to Plan Form)
3. **Exceeding the 120 credit maximum for baccalaureate degrees** *Exception to policy 301.11*
4. **Forming, eliminating or consolidating an academic, administrative, or research unit** (Curriculum or Center/Institute Proposal and Completed Intent to Plan Form, except when eliminating or consolidating)
5. **Re-titling an academic, administrative, or research unit**

**Proposal Summary** [360 words maximum]

**What:** Flathead Valley Community College is notifying the Montana Board of Regents of the termination of a 17-credit certificate of technical studies in Electronics Technology.

**Why:** This certificate has no enrollment, as students are choosing to earn the program's CAS or AAS degrees instead of the individual tiers.

November 2019

**ITEM 185-1906-LI1119**

**Notification of request for authorization to place the Administrative Support and Management Program on Moratorium beginning Spring 2020; Helena College**

**THAT**

Helena College University of Montana requests to place the Administrative Support and Management Program on Moratorium beginning Spring 2020

---

**EXPLANATION**

Helena College made the decision to put the Administrative Support and Management program beginning in spring 2020 due to decreasing enrollment. This decision was made through combined effort with both academic administrators and program faculty. Despite multiple efforts to meet both student and employer needs (i.e. change in course format, evening course offerings, partnerships with employers, etc.), enrollment has declined steadily over the past ten years. This decision was informed by enrollment, retention and completion data for the program, as well as the Strategic Enrollment Planning process at Helena College that began in April 2018.

There has been an increasing disconnect between the number of jobs available in Montana and the number of students enrolled in the program as Montana DOLI data shows that this is one of the areas with the most job openings. Program faculty and administrators will use the program moratorium to survey local employers, research employer needs, and determine whether or not the current certificate and degree options are truly meeting the needs of both students and employers. Credit vs. non-credit options will also be explored as there may be more need for non-credit offerings in this area.

Administrative Support Management	AAS	52.0401
Administrative Support	CAS	52.0407
Legal Administrative Support	CAS	22.0301
Medical Administrative Support Management	AAS	51.0710
Medical Administrative Support	CAS	51.0710

**ATTACHMENTS**

- Academic Proposal Request Form
- Program Termination/Moratorium Form

**Montana Board of Regents**  
**ACADEMIC PROPOSAL REQUEST FORM**

ITEM 185-1906-LI1119 Submission Month or Meeting: November 2019

Institution: Helena College CIP Code: 52.0401

Program/Center/Institute Title: Administrative Support and Management

Includes (please specify below): Online Offering \_\_\_\_\_ Options \_\_\_\_\_

Please mark the appropriate type of request and submit with an Item Template and any additional materials, including those listed in parentheses following the type of request. For more information pertaining to the types of requests listed below, how to complete an item request, or additional forms please visit <http://mus.edu/che/arsa/academicproposals.asp>.

     **A. Level I:**

**Campus Approvals**

- X   1a. **Placing a postsecondary educational program into moratorium** (Program Termination and Moratorium Form)
- 1b. **Withdrawing a postsecondary educational program from moratorium**
2. **Establishing, re-titling, terminating or revising a campus certificate of 29 credits or less**
3. **Establishing a B.A.S./A.A./A.S. area of study**
4. **Offering an existing postsecondary educational program via distance or online delivery**

**OCHE Approvals**

5. **Re-titling an existing postsecondary educational program**
6. **Terminating an existing postsecondary educational program** (Program Termination and Moratorium Form)
7. **Consolidating existing postsecondary educational programs** (Curriculum Proposal Form)
8. **Establishing a new minor where there is a major or an option in a major** (Curriculum Proposal Form)
9. **Revising a postsecondary educational program** (Curriculum Proposal Form)
10. **Establishing a temporary C.A.S. or A.A.S. degree program** *Approval limited to 2 years*

**Montana Board of Regents**  
**ACADEMIC PROPOSAL REQUEST FORM**

**B. Level II:**

- \_\_\_\_\_ **1. Establishing a new postsecondary educational program** (Curriculum Proposal and Completed Intent to Plan Form)
- \_\_\_\_\_ **2. Permanent authorization for a temporary C.A.S. or A.A.S degree program** (Curriculum Proposal and Completed Intent to Plan Form)
- \_\_\_\_\_ **3. Exceeding the 120 credit maximum for baccalaureate degrees** *Exception to policy 301.11*
- \_\_\_\_\_ **4. Forming, eliminating or consolidating an academic, administrative, or research unit** (Curriculum or Center/Institute Proposal and Completed Intent to Plan Form, except when eliminating or consolidating)
- \_\_\_\_\_ **5. Re-titling an academic, administrative, or research unit**

**Proposal Summary**

Helena College made the decision to put the Administrative Support and Management program beginning in spring 2020 due to decreasing enrollment. This decision was made through combined effort with both academic administrators and program faculty. Despite multiple efforts to meet both student and employer needs (i.e. change in course format, evening course offerings, partnerships with employers, etc.), enrollment has declined steadily over the past ten years. This decision was informed by enrollment, retention and completion data for the program, as well as the Strategic Enrollment Planning process at Helena College that began in April 2018.

There has been an increasing disconnect between the number of jobs available in Montana and the number of students enrolled in the program as Montana DOLI data shows that this is one of the areas with the most job openings. Program faculty and administrators will use the program moratorium to survey local employers, research employer needs, and determine whether or not the current certificate and degree options are truly meeting the needs of both students and employers. Credit vs. non-credit options will also be explored as there may be more need for non-credit offerings in this area.

Administrative Support Management	AAS	52.0401
Administrative Support	CAS	52.0407
Legal Administrative Support	CAS	22.0301
Medical Administrative Support Management	AAS	51.0710
Medical Administrative Support	CAS	51.0710

**Montana University System**  
**PROGRAM TERMINATION/MORATORIUM FORM**

Please complete the following questionnaire prior to submission of a program for termination or placement into moratorium. Please add additional comments beneath each question where applicable.

Program Title:  
Administrative  
Support &  
Management

Program is being  X  Placed into moratorium       Terminated

1. Are there currently students enrolled in the program? (If yes, please answer questions a - c below.) Y:  X  N:      

a.) Have all students currently enrolled in the program been met with and informed of the impending termination/moratorium? Y:  X  N:      

Students are all meeting with the program advisor and each has a plan for certificate and/or degree completion.

b.) What is the expected graduation date of all students from the program?

More than half of students enrolled in the program will graduate in spring 2020, with the remainder graduating in spring 2021.

c.) Have course offerings been planned to allow for students in the program to complete the degree in a reasonable fashion? Y:  X  N:      

Courses will be scheduled to allow students to complete during the semester needed.

2. Will any faculty layoffs or changes in working conditions occur because of the termination/moratorium? (If yes, please answer questions a - b below.) Y:       N:  X

**Montana University System**  
**PROGRAM TERMINATION/MORATORIUM FORM**

---

- a.) Have the faculty affected by the program termination/moratorium been notified?      Y:     N:

Program faculty were involved in the decision making process.

- b.) Please describe any layoffs that will occur including the date expected?

3. The following parties, where applicable, have been notified of the impending program termination/moratorium. (Please mark X for completed, NA for not applicable):

a.) Internal Curriculum Committees            X      

b.) Faculty Senate            X      

c.) Program Public Advisory Committee            X      

d.) Articulation Partners            X      

4. Has there been any negative feedback received from students, faculty, or other constituents regarding the impending termination/moratorium? (If yes, please explain below.)      Y:     N:



## LEVEL I MEMORANDUM

---

**DATE:** November 27<sup>th</sup>, 2019

**TO:** Chief Academic Officers, Montana University System

**FROM:** Brock Tessman, Deputy Commissioner for Academic, Research, and Student Affairs

**RE:** November 2019 Level I Academic Items

---

Contained within this memorandum are Level I proposals submitted by the institutions of the Montana University System in November 2019. These proposals include items for which approval authority has been designated by the Board of Regents to the individual institutions or the Commissioner of Higher Education. These Level I items are being sent to you for your review. If you have concerns about a particular proposal, you should share those concerns with your colleagues at that institution and try to come to some understanding. If you cannot resolve your concerns, raise them at the Level I Chief Academic Officer's conference call on December 17<sup>th</sup>. Issues not resolved at that meeting should be submitted in writing to OCHE by noon on Friday, December 20<sup>th</sup>. You will be notified of approved proposals by January 6<sup>th</sup>. The Board of Regents will be notified of the approved proposals at the January meeting of the Board.

### 1. Campus Approvals

#### **Helena College University of Montana:**

- Notification of offering A.A.S. Accounting and Business Technology, Accounting Technology via online delivery  
[Item #185-1907-L11119 | Request Form](#)
- Notification of offering C.A.S. Accounting and Business Technology, Bookkeeping via online delivery  
[Item #185-1908-L11119 | Request Form](#)

November 2019

**ITEM 185-1907-LI1119**

**Request for authorization to offer A.A.S. Accounting and Business Technology, Accounting Technology via online delivery – Helena College UM**

---

**THAT**

Helena College University of Montana requests authorization from the Montana Board of Regents of Higher Education to offer A.A.S. Accounting and Business Technology, Accounting Technology via online delivery.

---

**EXPLANATION**

The student demographic seeking an A.A.S. Accounting Technology has historically been working adults. Offering the degree in a fully online format allows working adults to complete courses without having to disrupt work schedules. Offering the degree online also makes it easier for students living just outside of Helena (Townsend, Boulder, etc.) to complete courses.

Accounting and Business Technology faculty completed its mid-review of its last self-study. One of the recommendations from the self-study was to review the program for recognition for student success in industry and higher education. One strategy to accomplish the recommendation was to research offering the A.A.S. Accounting Technology and C.A.S. Bookkeeping fully through online delivery.

As part of the campus-wide Strategic Enrollment Planning process (S.E.P.), Accounting and Business Technology was identified as a program for online delivery for one or more of its certificate/degrees. Accounting and Business Technology faculty selected the C.A.S. Bookkeeping and A.A.S. Accounting Technology for investigation into offering total online delivery. Faculty would also work with other staff on the campus for an all-encompassing approach for the online learning student including campus services to complement online course delivery.

The request to offer Accounting and Business Technology A.A.S. Accounting Technology via online delivery is part of the process toward meeting S.E.P. goals, program self-study recommendations, and workforce development needs.

---

**ATTACHMENTS**

Academic Proposal Request Form

Montana Board of Regents  
ACADEMIC PROPOSAL REQUEST FORM

ITEM 185-1907-LI1119 Submission Month or Meeting: November

Institution: Helena College CIP Code: 52.0301

Program/Center/Institute Title: Accounting and Business Technology, Accounting Technology Associate of Applied Science

Includes (please specify below): Online Offering  Options Hybrid and online

Please mark the appropriate type of request and submit with an Item Template and any additional materials, including those listed in parentheses following the type of request. For more information pertaining to the types of requests listed below, how to complete an item request, or additional forms please visit <http://mus.edu/che/arsa/academicproposals.asp>.

     **A. Level I:**

**Campus Approvals**

- 1a. **Placing a postsecondary educational program into moratorium** (Program Termination and Moratorium Form)
- 1b. **Withdrawing a postsecondary educational program from moratorium**
- 2. **Establishing, re-titling, terminating or revising a campus certificate of 29 credits or less**
- 3. **Establishing a B.A.S./A.A./A.S. area of study**
- X 4. **Offering an existing postsecondary educational program via distance or online delivery**

**OCHE Approvals**

- 5. **Re-titling an existing postsecondary educational program**
- 6. **Terminating an existing postsecondary educational program** (Program Termination and Moratorium Form)
- 7. **Consolidating existing postsecondary educational programs** (Curriculum Proposal Form)
- 8. **Establishing a new minor where there is a major or an option in a major** (Curriculum Proposal Form)
- 9. **Revising a postsecondary educational program** (Curriculum Proposal Form)
- 10. **Establishing a temporary C.A.S. or A.A.S. degree program** *Approval limited to 2 years*

**Montana Board of Regents**  
**ACADEMIC PROPOSAL REQUEST FORM**

**B. Level II:**

1. **Establishing a new postsecondary educational program** (Curriculum Proposal and Completed Intent to Plan Form)
2. **Permanent authorization for a temporary C.A.S. or A.A.S degree program** (Curriculum Proposal and Completed Intent to Plan Form)
3. **Exceeding the 120 credit maximum for baccalaureate degrees** *Exception to policy 301.11*
4. **Forming, eliminating or consolidating an academic, administrative, or research unit** (Curriculum or Center/Institute Proposal and Completed Intent to Plan Form, except when eliminating or consolidating)
5. **Re-titling an academic, administrative, or research unit**

**Proposal Summary [360 words maximum]**

**What**

Request to offer Accounting and Business Technology A.A.S. Accounting Technology via online delivery; Helena College.

**Why**

The student demographic seeking an A.A.S. Accounting Technology has historically been working adults. Offering the degree in a fully online format allows working adults to complete courses without having to disrupt work schedules. Offering the degree online also makes it easier for students living just outside of Helena (Townsend, Boulder, etc.) to complete courses.

Accounting and Business Technology faculty completed its mid-review of its last self-study. One of the recommendations from the self-study was to review the program for recognition for student success in industry and higher education. One strategy to accomplish the recommendation was to research offering the A.A.S. Accounting Technology and C.A.S. Bookkeeping fully through online delivery.

As part of the campus-wide Strategic Enrollment Planning process (S.E.P.), Accounting and Business Technology was identified as a program for online delivery for one or more of its certificate/degrees. Accounting and Business Technology faculty selected the C.A.S. Bookkeeping and A.A.S. Accounting Technology for investigation into offering total online delivery. Faculty would also work with other staff on the campus for an all-encompassing approach for the online learning student including campus services to complement online course delivery.

The request to offer Accounting and Business Technology A.A.S. Accounting Technology via online delivery is part of the process toward meeting S.E.P. goals, program self-study recommendations, and workforce development needs.

**Resources**

Accounting and Business Technology faculty will create online courses over the FY 2020 academic year. 23 of the 28 required and electives courses of the degree are currently offered online; only 5 courses would need to have online delivery developed for the A.A.S. Accounting Technology to be fully available through online delivery. Training in online design and delivery will be

**Montana Board of Regents**  
**ACADEMIC PROPOSAL REQUEST FORM**

provided for faculty teaching in the program. Marketing and promotion of the fully online degree option will begin prior to Fall 2020 start date.

**Relationship to similar MUS programs**

The Helena College A.A.S. Accounting Technology is different from other associate of applied degrees in accounting offered throughout the M.U.S. system. Each serves the unique needs of their local/surrounding area.

November 2019

**ITEM 185-1908-LI1119**

**Request for authorization to offer C.A.S. Accounting and Business Technology, Bookkeeping via online delivery – Helena College UM**

---

**THAT**

Helena College University of Montana requests authorization from the Montana Board of Regents of Higher Education to offer C.A.S. Accounting and Business Technology, Bookkeeping via online delivery.

---

**EXPLANATION**

The student demographic seeking a C.A.S. Bookkeeping has historically been working adults. Offering the certificate in a fully online format allows working adults to complete courses without having to disrupt work schedules. Offering the certificate online also makes it easier for students living just outside of Helena (Townsend, Boulder, etc.) to complete courses.

Accounting and Business Technology faculty completed its mid-review of its last self-study. One of the recommendations from the self-study was to review the program for recognition for student success in industry and higher education. One strategy to accomplish the recommendation is to research offering the A.A.S. Accounting Technology and C.A.S. Bookkeeping fully through online delivery. Providing additional support for online delivery is the program's Advisory Council. These employers value investing in their employees while maintaining normal business hours.

As part of a campus-wide Strategic Enrollment Planning process (S.E.P.), Accounting and Business Technology has been identified as a program for online delivery for one or more of its certificate/degrees. Program faculty have selected the C.A.S. Bookkeeping and A.A.S. Accounting Technology for investigation into offering total online delivery. Faculty would work with other staff on the campus for an all-encompassing approach for the online learning student including campus services to complement online course delivery.

The request to offer Accounting and Business Technology C.A.S. Bookkeeping via online delivery is part of the process toward meeting S.E.P. goals, program self-study recommendations, and workforce development needs.

---

**ATTACHMENTS**

Academic Proposal Request Form

**Montana Board of Regents**  
**ACADEMIC PROPOSAL REQUEST FORM**

ITEM 185-1908-LI1119 Submission Month or Meeting: November

Institution: Helena College CIP Code: 52.0302

Program/Center/Institute Title: Accounting and Business Technology, Bookkeeping Certificate of Applied Science

Includes (please specify below): Online Offering  Options Hybrid and online

Please mark the appropriate type of request and submit with an Item Template and any additional materials, including those listed in parentheses following the type of request. For more information pertaining to the types of requests listed below, how to complete an item request, or additional forms please visit <http://mus.edu/che/arsa/academicproposals.asp>.

     **A. Level I:**

**Campus Approvals**

- 1a. Placing a postsecondary educational program into moratorium** (Program Termination and Moratorium Form)
- 1b. Withdrawing a postsecondary educational program from moratorium**
- 2. Establishing, re-titling, terminating or revising a campus certificate of 29 credits or less**
- 3. Establishing a B.A.S./A.A./A.S. area of study**
- X** **4. Offering an existing postsecondary educational program via distance or online delivery**

**OCHE Approvals**

- 5. Re-titling an existing postsecondary educational program**
- 6. Terminating an existing postsecondary educational program** (Program Termination and Moratorium Form)
- 7. Consolidating existing postsecondary educational programs** (Curriculum Proposal Form)
- 8. Establishing a new minor where there is a major or an option in a major** (Curriculum Proposal Form)
- 9. Revising a postsecondary educational program** (Curriculum Proposal Form)
- 10. Establishing a temporary C.A.S. or A.A.S. degree program** *Approval limited to 2 years*

**Montana Board of Regents**  
**ACADEMIC PROPOSAL REQUEST FORM**

**B. Level II:**

1. **Establishing a new postsecondary educational program** (Curriculum Proposal and Completed Intent to Plan Form)
2. **Permanent authorization for a temporary C.A.S. or A.A.S degree program** (Curriculum Proposal and Completed Intent to Plan Form)
3. **Exceeding the 120 credit maximum for baccalaureate degrees** *Exception to policy 301.11*
4. **Forming, eliminating or consolidating an academic, administrative, or research unit** (Curriculum or Center/Institute Proposal and Completed Intent to Plan Form, except when eliminating or consolidating)
5. **Re-titling an academic, administrative, or research unit**

**Proposal Summary [360 words maximum]**

**What**

Request to offer Accounting and Business Technology C.A.S. Bookkeeping via online delivery; Helena College.

**Why**

The student demographic seeking a C.A.S. Bookkeeping has historically been working adults. Offering the certificate in a fully online format allows working adults to complete courses without having to disrupt work schedules. Offering the certificate online also makes it easier for students living just outside of Helena (Townsend, Boulder, etc.) to complete courses.

Accounting and Business Technology faculty completed its mid-review of its last self-study. One of the recommendations from the self-study was to review the program for recognition for student success in industry and higher education. One strategy to accomplish the recommendation is to research offering the A.A.S. Accounting Technology and C.A.S. Bookkeeping fully through online delivery. Providing additional support for online delivery is the program's Advisory Council. These employers value investing in their employees while maintaining normal business hours.

As part of a campus-wide Strategic Enrollment Planning process (S.E.P.), Accounting and Business Technology has been identified as a program for online delivery for one or more of its certificate/degrees. Program faculty have selected the C.A.S. Bookkeeping and A.A.S. Accounting Technology for investigation into offering total online delivery. Faculty would work with other staff on the campus for an all-encompassing approach for the online learning student including campus services to complement online course delivery.

The request to offer Accounting and Business Technology C.A.S. Bookkeeping via online delivery is part of the process toward meeting S.E.P. goals, program self-study recommendations, and workforce development needs.

**Resources**

Accounting and Business Technology program faculty will create online courses over the FY 2020 academic year. Training in online design and delivery will be provided for faculty teaching in the program. Marketing and promotion of the fully online degree option will begin prior to Fall 2020 start date. 14 of the 15 required and electives courses of the certificate are currently



**Montana Board of Regents**  
**ACADEMIC PROPOSAL REQUEST FORM**

offered online; only 2 courses would need to have online delivery developed for the C.A.S. Bookkeeping to be fully available through online delivery.

**Relationship to similar MUS programs**

The Helena College C.A.S. Bookkeeping is different from other certificates in accounting offered throughout the M.U.S. system. Each serves the unique needs of their local/surrounding area.

## LEVEL I MEMORANDUM

---

**DATE:** January 6<sup>th</sup>, 2019

**TO:** Chief Academic Officers, Montana University System

**FROM:** Brock Tessman, Deputy Commissioner for Academic, Research, and Student Affairs

**RE:** December 2019 Level I Academic Items

---

Contained within this memorandum are Level I proposals submitted by the institutions of the Montana University System in December 2019. These proposals include items for which approval authority has been designated by the Board of Regents to the individual institutions or the Commissioner of Higher Education. These Level I items are being sent to you for your review. If you have concerns about a particular proposal, you should share those concerns with your colleagues at that institution and try to come to some understanding. If you cannot resolve your concerns, raise them at the Level I Chief Academic Officer's conference call on Wednesday, January 22<sup>nd</sup>. Issues not resolved at that meeting should be submitted in writing to OCHE by noon on Friday, January 24<sup>th</sup>. You will be notified of approved proposals by January 29<sup>th</sup>. The Board of Regents will be notified of the approved proposals at the March meeting of the Board.

### 1. Campus Approvals

#### **The University of Montana Missoula:**

- Notification of retitle of the Child Welfare certificate to Human Services  
[Item #187-1004-LI1219](#) | [Request Form](#)
- Notification of the establishment of an undergraduate certificate in Sonic Arts  
[Item #187-1005-LI1219](#) | [Request Form](#)
- Notification of the establishment of an undergraduate certificate in Digital Design  
[Item #187-1006-LI1219](#) | [Request Form](#)
- Notification of the establishment of an undergraduate certificate in Philosophy, Politics, and Law  
[Item #187-1007-LI1219](#) | [Request Form](#)
- Notification of the establishment of a graduate certificate in Advising  
[Item #187-1008-LI1219](#) | [Request Form](#)
- Notification of the establishment of a graduate certificate in Data Visualization  
[Item #187-1009-LI1219](#) | [Request Form](#)
- Notification of the establishment of an Addiction Studies CTS  
[Item #187-1010-LI1219](#) | [Request Form](#)
- Notification of the establishment of a certificate in Business  
[Item #187-1011-LI1219](#) | [Request Form](#)
- Notification of the establishment of a Cloud Computing CTS  
[Item #187-1012-LI1219](#) | [Request Form](#)
- Notification of the establishment of an undergraduate certificate in Data Visualization  
[Item #187-1013-LI1219](#) | [Request Form](#)
- Notification of the placement of the Energy Auditor Certificate into moratorium  
[Item #187-1014-LI1219](#) | [Request Form](#) | [Moratorium Form](#)
- Notification of retitle of the Philosophy M.A. to Environmental Philosophy and place the environmental ethics option into moratorium  
[Item #187-1015-LI1219](#) | [Request Form](#) | [Moratorium Form](#)
- Notification of the placement of the Recycling Technology Certificate into moratorium  
[Item #187-1016-LI1219](#) | [Request Form](#) | [Moratorium Form](#)

- Notification of the establishment of a certificate in Sustainable Agriculture and Food Systems  
[Item #187-1017-LI1219](#) | [Request Form](#)

### 2. OCHE Approvals

#### **Montana State University Bozeman:**

- Request for authorization to terminate the Minor in Photography-Non-Teaching  
[Item #187-2010-LI1219](#) | [Request Form](#) | [Termination Form](#)

#### **The University of Montana Missoula:**

- Request for authorization to retitle Health and Human Performance B.S. to Integrated Physiology B.S.  
[Item #187-1001-LI1219](#) | [Request Form](#)
- Request for authorization to retitle Exercise Science Pre-Athletic Training option in Health and Human Performance B.S. to Pre-Athletic Training option  
[Item #187-1002-LI1219](#) | [Request Form](#)
- Request for authorization to retitle Public and Community Health option in Health and Human Performance B.S. to Sports Medicine option  
[Item #187-1003-LI1219](#) | [Request Form](#)

#### **Montana Technological University:**

- Request for authorization to retitle the A.S. in Drafting Technology to A.S. in AEC Graphics Technology  
[Item #187-1501-LI1219](#) | [Request Form](#)

December 2019

ITEM 187-1004-LI1219

**Notification of the retitle of the Child Welfare certificate to Human Services**

---

**THAT**

The University of Montana-Missoula is notifying the Montana Board of Regents of its intent to retitle the Child Welfare certificate into a certificate in Human Services.

---

**EXPLANATION**

The retitling of the certificate to Human Services allows the Center to cast a wider net to prospective learners entering the human services. The current title of Child Welfare restricts learners who are only interested in entry level positions with the state of Montana's Child and Family Services Division. Since establishing the Certificate, the Center has received requests to expand the scope to fill job vacancies across Montana in both private and public agencies that work with at-risk children and families. The expansion would include the areas of disability, mental health, and early childhood.

**ATTACHMENTS**

Academic Proposal Request Form

**Montana Board of Regents**  
**ACADEMIC PROPOSAL REQUEST FORM**

ITEM 187-1004-LI1219 Submission Month or Meeting: December 2019

Institution: University of Montana-Missoula CIP Code: 44.0000

Program/Center/Institute Title: Child Welfare certificate retitled to Human Services certificate

Includes (please specify below): Online Offering X Options \_\_\_\_\_

Please mark the appropriate type of request and submit with an Item Template and any additional materials, including those listed in parentheses following the type of request. For more information pertaining to the types of requests listed below, how to complete an item request, or additional forms please visit <http://mus.edu/che/arsa/academicproposals.asp>.

X **A. Level I:**

**Campus Approvals**

- \_\_\_\_\_ 1a. **Placing a postsecondary educational program into moratorium** (Program Termination and Moratorium Form)
- \_\_\_\_\_ 1b. **Withdrawing a postsecondary educational program from moratorium**
- X 2. **Establishing, re-titling, terminating or revising a campus certificate of 29 credits or less**
- \_\_\_\_\_ 3. **Establishing a B.A.S./A.A./A.S. area of study**
- \_\_\_\_\_ 4. **Offering an existing postsecondary educational program via distance or online delivery**

**OCHE Approvals**

- \_\_\_\_\_ 5. **Re-titling an existing postsecondary educational program**
- \_\_\_\_\_ 6. **Terminating an existing postsecondary educational program** (Program Termination and Moratorium Form)
- \_\_\_\_\_ 7. **Consolidating existing postsecondary educational programs** (Curriculum Proposal Form)
- \_\_\_\_\_ 8. **Establishing a new minor where there is a major or an option in a major** (Curriculum Proposal Form)
- \_\_\_\_\_ 9. **Revising a postsecondary educational program** (Curriculum Proposal Form)
- \_\_\_\_\_ 10. **Establishing a temporary C.A.S. or A.A.S. degree program** *Approval limited to 2 years*

**Montana Board of Regents**  
**ACADEMIC PROPOSAL REQUEST FORM**

**B. Level II:**

- 1. Establishing a new postsecondary educational program** (Curriculum Proposal and Completed Intent to Plan Form)
- 2. Permanent authorization for a temporary C.A.S. or A.A.S degree program** (Curriculum Proposal and Completed Intent to Plan Form)
- 3. Exceeding the 120 credit maximum for baccalaureate degrees** *Exception to policy 301.11*
- 4. Forming, eliminating or consolidating an academic, administrative, or research unit** (Curriculum or Center/Institute Proposal and Completed Intent to Plan Form, except when eliminating or consolidating)
- 5. Re-titling an academic, administrative, or research unit**

**Proposal Summary [360 words maximum]**

**What**

The University of Montana is notifying the Montana Board of Regents of its intent to retitle the Child Welfare certificate to Human Services.

**Why**

The retitling of the Certificate in Child Welfare to a Certificate in Human Services addresses the expanding need for entry level workers to receive the requisite education to enter employment with public and private agencies that work with high risk children and families. The new title encourages prospective learners who are interested in working with this high-risk population but not necessarily interested in working in public child welfare (e.g. state or tribal child protective services). Employment for these learners include family support services, group homes, residential treatment centers, and public schools. Thus, the retitling meets the employment needs of the original proposal targeting public and tribal child welfare as well as the expanded employment needs beyond the certificate's initial scope.

**Resources**

Not applicable

**Relationship to similar MUS programs**

MSU-Billings has a BA in Human Services, and Helena College, Flathead Valley CC, Dawson CC have an AA in Human Services. This proposed retitling of the certificate will reach entry level learners who are unable to attend either of the above programs due to distance, family circumstances, or financial need. The certificate is also designed to be a conduit to MUS AA or BA degrees.

December 2019

ITEM 187-1005-LI1219

**Notification of the establishment of an undergraduate certificate in Sonic Arts**

---

**THAT**

The University of Montana-Missoula is notifying the Montana Board of Regents of its intent to create a certificate in Sonic Arts.

---

**EXPLANATION**

The goal of this certificate is to create an official avenue for artists within the university who are interested in sound, audio, and sonic art to take a directed path of study allowing them to acquire both hard skills in this area as well as theoretical knowledge and history. Within the College of the Arts and Media, many students want to incorporate sonic arts practices and theory into their work and art. The certificate is composed of courses from the existing Sonic Arts track within the Media Arts B.F.A.

---

**ATTACHMENTS**

Academic Proposal Request Form

**Montana Board of Regents**  
**ACADEMIC PROPOSAL REQUEST FORM**

ITEM 187-1005-LI1219 Submission Month or Meeting: December 2019

Institution: University of Montana-Missoula CIP Code: 50.0102

Program/Center/Institute Title: Sonic Arts certificate

Includes (please specify below): Online Offering \_\_\_\_\_ Options \_\_\_\_\_

Please mark the appropriate type of request and submit with an Item Template and any additional materials, including those listed in parentheses following the type of request. For more information pertaining to the types of requests listed below, how to complete an item request, or additional forms please visit <http://mus.edu/che/arsa/academicproposals.asp>.

X **A. Level I:**

**Campus Approvals**

\_\_\_\_\_ 1a. **Placing a postsecondary educational program into moratorium** (Program Termination and Moratorium Form)

\_\_\_\_\_ 1b. **Withdrawing a postsecondary educational program from moratorium**

X \_\_\_\_\_ 2. **Establishing, re-titling, terminating or revising a campus certificate of 29 credits or less**

\_\_\_\_\_ 3. **Establishing a B.A.S./A.A./A.S. area of study**

\_\_\_\_\_ 4. **Offering an existing postsecondary educational program via distance or online delivery**

**OCHE Approvals**

\_\_\_\_\_ 5. **Re-titling an existing postsecondary educational program**

\_\_\_\_\_ 6. **Terminating an existing postsecondary educational program** (Program Termination and Moratorium Form)

\_\_\_\_\_ 7. **Consolidating existing postsecondary educational programs** (Curriculum Proposal Form)

\_\_\_\_\_ 8. **Establishing a new minor where there is a major or an option in a major** (Curriculum Proposal Form)

\_\_\_\_\_ 9. **Revising a postsecondary educational program** (Curriculum Proposal Form)

\_\_\_\_\_ 10. **Establishing a temporary C.A.S. or A.A.S. degree program** *Approval limited to 2 years*



**Montana Board of Regents**  
**ACADEMIC PROPOSAL REQUEST FORM**

**B. Level II:**

1. **Establishing a new postsecondary educational program** (Curriculum Proposal and Completed Intent to Plan Form)
2. **Permanent authorization for a temporary C.A.S. or A.A.S degree program** (Curriculum Proposal and Completed Intent to Plan Form)
3. **Exceeding the 120 credit maximum for baccalaureate degrees** *Exception to policy 301.11*
4. **Forming, eliminating or consolidating an academic, administrative, or research unit** (Curriculum or Center/Institute Proposal and Completed Intent to Plan Form, except when eliminating or consolidating)
5. **Re-titling an academic, administrative, or research unit**

**Proposal Summary [360 words maximum]**

**What**

The University of Montana-Missoula is notifying the Montana Board of Regents of its intent to create a Sonic Arts certificate

**Why**

There is currently a need within the College of Arts and Media, the larger University, and within the community of Missoula for people who understand the science and theory of sound, and who can work with sound or audio in a variety of applications. This certificate takes existing School of Visual and Media Arts courses and packages them into a short, 4-course sequence that will allow any student to start from no knowledge of sound to acquiring a working understanding of how to work with sound, capture audio via common recording means, and distribute finished sonic works for various applications. Students will learn about basic tools, techniques, and science in the first course. In the remaining courses, students will study specific applications for sound and audio towards film, art, the internet, and studio work.

**Resources**

The courses that will comprise this certificate already exist, so no new resources are necessary.

**Relationship to similar MUS programs**

Music programs within the system are going to have the most in common with this program. As with the existing BFA in Media Arts, Sonic Arts track, the courses that comprise this certificate serve to support audio and sound needs beyond the traditional programs focused on performance, composition, and education in classical or jazz music. Therefore, this program is non-duplicative and serves different needs than those that are currently being met by a music-specific focused curriculum.

December 2019

ITEM 187-1006-LI1219

**Notification of the establishment of an undergraduate certificate in Digital Design**

---

**THAT**

The University of Montana-Missoula is notifying the Montana Board of Regents of its intent to create a certificate in Digital Design.

---

**EXPLANATION**

The Digital Design certificate will provide students the opportunity to establish a base understanding of the tools and techniques of computer-based digital imaging, design, and publication. Including photo editing/manipulation, graphical elements (raster and vector), typography, layout design, and basic animation, this certificate could be a valuable companion to nearly any discipline at the University.

---

**ATTACHMENTS**

Academic Proposal Request Form

**Montana Board of Regents**  
**ACADEMIC PROPOSAL REQUEST FORM**

ITEM 187-1006-LI1219 Submission Month or Meeting: December 2019

Institution: University of Montana-Missoula CIP Code: 11.0803

Program/Center/Institute Title: Digital Design undergraduate certificate

Includes (please specify below): Online Offering X Options \_\_\_\_\_

Please mark the appropriate type of request and submit with an Item Template and any additional materials, including those listed in parentheses following the type of request. For more information pertaining to the types of requests listed below, how to complete an item request, or additional forms please visit <http://mus.edu/che/arsa/academicproposals.asp>.

X **A. Level I:**

**Campus Approvals**

- \_\_\_\_\_ 1a. **Placing a postsecondary educational program into moratorium** (Program Termination and Moratorium Form)
- \_\_\_\_\_ 1b. **Withdrawing a postsecondary educational program from moratorium**
- X 2. **Establishing, re-titling, terminating or revising a campus certificate of 29 credits or less**
- \_\_\_\_\_ 3. **Establishing a B.A.S./A.A./A.S. area of study**
- \_\_\_\_\_ 4. **Offering an existing postsecondary educational program via distance or online delivery**

**OCHE Approvals**

- \_\_\_\_\_ 5. **Re-titling an existing postsecondary educational program**
- \_\_\_\_\_ 6. **Terminating an existing postsecondary educational program** (Program Termination and Moratorium Form)
- \_\_\_\_\_ 7. **Consolidating existing postsecondary educational programs** (Curriculum Proposal Form)
- \_\_\_\_\_ 8. **Establishing a new minor where there is a major or an option in a major** (Curriculum Proposal Form)
- \_\_\_\_\_ 9. **Revising a postsecondary educational program** (Curriculum Proposal Form)
- \_\_\_\_\_ 10. **Establishing a temporary C.A.S. or A.A.S. degree program** *Approval limited to 2 years*

**Montana Board of Regents**  
**ACADEMIC PROPOSAL REQUEST FORM**

**B. Level II:**

1. **Establishing a new postsecondary educational program** (Curriculum Proposal and Completed Intent to Plan Form)
2. **Permanent authorization for a temporary C.A.S. or A.A.S degree program** (Curriculum Proposal and Completed Intent to Plan Form)
3. **Exceeding the 120 credit maximum for baccalaureate degrees** *Exception to policy 301.11*
4. **Forming, eliminating or consolidating an academic, administrative, or research unit** (Curriculum or Center/Institute Proposal and Completed Intent to Plan Form, except when eliminating or consolidating)
5. **Re-titling an academic, administrative, or research unit**

**Proposal Summary [360 words maximum]**

**What**

The University of Montana-Missoula is notifying the Montana Board of Regents of its intent to create a Digital Design undergraduate certificate

**Why**

The Digital Design certificate will provide students the opportunity to establish a base understanding of the tools and techniques of computer-based digital imaging, design, and publication. Including photo editing/manipulation, graphical elements (raster and vector) to typography, layout design, and basic animation, this certificate could be a valuable companion to nearly any discipline at the University.

**Resources**

Existing classes and resources are sufficient to support the Digital Design certificate.

**Relationship to similar MUS programs**

There are no other similar programs in the MUS.

December 2019

**ITEM 187-1007-LI1219**

**Notification of the establishment of an undergraduate certificate in Philosophy, Politics, and Law**

---

**THAT**

The University of Montana-Missoula is notifying the Montana Board of Regents of its intent to create a certificate in Philosophy, Politics, and Law.

---

**EXPLANATION**

Many students, particularly those planning to attend law school or pursuing public policy careers, are interested studying modern democracies from the point of view of a variety of disciplines—including philosophy, political science, history, sociology, and economics. We propose that students who gain substantial and comprehensive knowledge of law and contemporary democratic institutions in these disciplines receive the Philosophy, Politics, and Law certificate.

---

**ATTACHMENTS**

Academic Proposal Request Form

**Montana Board of Regents**  
**ACADEMIC PROPOSAL REQUEST FORM**

ITEM 187-1007-LI1219 Submission Month or Meeting: December 2019

Institution: University of Montana-Missoula CIP Code: 22.0001

Program/Center/Institute Title: Philosophy, Politics, and Law undergraduate certificate

Includes (please specify below): Online Offering \_\_\_\_\_ Options \_\_\_\_\_

Please mark the appropriate type of request and submit with an Item Template and any additional materials, including those listed in parentheses following the type of request. For more information pertaining to the types of requests listed below, how to complete an item request, or additional forms please visit <http://mus.edu/che/arsa/academicproposals.asp>.

x **A. Level I:**

**Campus Approvals**

\_\_\_\_\_ 1a. **Placing a postsecondary educational program into moratorium** (Program Termination and Moratorium Form)

\_\_\_\_\_ 1b. **Withdrawing a postsecondary educational program from moratorium**

x \_\_\_\_\_ 2. **Establishing, re-titling, terminating or revising a campus certificate of 29 credits or less**

\_\_\_\_\_ 3. **Establishing a B.A.S./A.A./A.S. area of study**

\_\_\_\_\_ 4. **Offering an existing postsecondary educational program via distance or online delivery**

**OCHE Approvals**

\_\_\_\_\_ 5. **Re-titling an existing postsecondary educational program**

\_\_\_\_\_ 6. **Terminating an existing postsecondary educational program** (Program Termination and Moratorium Form)

\_\_\_\_\_ 7. **Consolidating existing postsecondary educational programs** (Curriculum Proposal Form)

\_\_\_\_\_ 8. **Establishing a new minor where there is a major or an option in a major** (Curriculum Proposal Form)

\_\_\_\_\_ 9. **Revising a postsecondary educational program** (Curriculum Proposal Form)

\_\_\_\_\_ 10. **Establishing a temporary C.A.S. or A.A.S. degree program** *Approval limited to 2 years*

**Montana Board of Regents**  
**ACADEMIC PROPOSAL REQUEST FORM**

**B. Level II:**

1. **Establishing a new postsecondary educational program** (Curriculum Proposal and Completed Intent to Plan Form)
2. **Permanent authorization for a temporary C.A.S. or A.A.S degree program** (Curriculum Proposal and Completed Intent to Plan Form)
3. **Exceeding the 120 credit maximum for baccalaureate degrees** *Exception to policy 301.11*
4. **Forming, eliminating or consolidating an academic, administrative, or research unit** (Curriculum or Center/Institute Proposal and Completed Intent to Plan Form, except when eliminating or consolidating)
5. **Re-titling an academic, administrative, or research unit**

**Proposal Summary [360 words maximum]**

**What**

The University of Montana-Missoula is notifying the Montana Board of Regents of its intent to create an undergraduate Philosophy, Politics, and Law certificate.

**Why**

The Philosophy, Politics, and Law certificate offers an interdisciplinary perspective on the normative foundations and actual functioning of legal and political institutions. The certificate is grounded in both the humanistic tradition and the social sciences. While philosophical analysis focuses on what makes individual behavior and institutional regulations legitimate, it is not practical without a good grip on how human social and political life actually works. Conversely, one's grasp of political, legal, and social behavior is greatly enriched by a conceptual and foundational perspective on the norms of behavior. Political Science, philosophy, and other disciplines such as history, sociology, or economics are thus perfectly complementary when it comes to foster one's understanding of our legal and political institutions.

The certificate will meet the needs of the 21<sup>st</sup> century job market. Graduates will excel in logical thinking and complex conceptual analysis, skills that are increasingly important in law, public policy and business. The certificate will be of interest for students interested in going to law and graduate school, but will also serve any student interested in careers in business, public administration, the non-profit sector, or government work. Many students, in particular pre-law students, are already exploring the functioning of legal and political institutions through the various lenses of multiple disciplines such as philosophy, political science, history, sociology, or economics.

**Resources**

Existing classes and resources are sufficient to support the certificate.

**Relationship to similar MUS programs**

There are no other similar programs in the MUS.

December 2019

ITEM 187-1008-LI1219

**Notification of the establishment of a graduate certificate in Advising**

---

**THAT**

The University of Montana-Missoula is notifying the Montana Board of Regents of its intent to create a certificate in Advising.

---

**EXPLANATION**

Based on the success of the UM's Office of Student Success internal training program for new academic advisors and the subsequent demand for enhanced professional preparation, we are creating this fully online advising certificate that adheres to the National Academic Advising Association (NACADA) standards. In addition to providing robust professional preparation, this interdisciplinary certificate is a stackable credential that can lead to a M.Ed. in Educational Leadership or Teaching and Learning or to a M.A. in Education through the Department of Teaching and Learning. This certificate program will be available across Montana and across the country.

---

**ATTACHMENTS**

Academic Proposal Request Form



**Montana Board of Regents**  
**ACADEMIC PROPOSAL REQUEST FORM**

ITEM 187-1008-LI1219 Submission Month or Meeting: December 2019

Institution: University of Montana-Missoula CIP Code: 13.0406

Program/Center/Institute Title: Advising graduate certificate

Includes (please specify below): Online Offering X Options \_\_\_\_\_

Please mark the appropriate type of request and submit with an Item Template and any additional materials, including those listed in parentheses following the type of request. For more information pertaining to the types of requests listed below, how to complete an item request, or additional forms please visit <http://mus.edu/che/arsa/academicproposals.asp>.

X **A. Level I:**

**Campus Approvals**

- \_\_\_\_\_ 1a. **Placing a postsecondary educational program into moratorium** (Program Termination and Moratorium Form)
- \_\_\_\_\_ 1b. **Withdrawing a postsecondary educational program from moratorium**
- X 2. **Establishing, re-titling, terminating or revising a campus certificate of 29 credits or less**
- \_\_\_\_\_ 3. **Establishing a B.A.S./A.A./A.S. area of study**
- \_\_\_\_\_ 4. **Offering an existing postsecondary educational program via distance or online delivery**

**OCHE Approvals**

- \_\_\_\_\_ 5. **Re-titling an existing postsecondary educational program**
- \_\_\_\_\_ 6. **Terminating an existing postsecondary educational program** (Program Termination and Moratorium Form)
- \_\_\_\_\_ 7. **Consolidating existing postsecondary educational programs** (Curriculum Proposal Form)
- \_\_\_\_\_ 8. **Establishing a new minor where there is a major or an option in a major** (Curriculum Proposal Form)
- \_\_\_\_\_ 9. **Revising a postsecondary educational program** (Curriculum Proposal Form)
- \_\_\_\_\_ 10. **Establishing a temporary C.A.S. or A.A.S. degree program** *Approval limited to 2 years*

**Montana Board of Regents**  
**ACADEMIC PROPOSAL REQUEST FORM**

**B. Level II:**

1. **Establishing a new postsecondary educational program** (Curriculum Proposal and Completed Intent to Plan Form)
2. **Permanent authorization for a temporary C.A.S. or A.A.S degree program** (Curriculum Proposal and Completed Intent to Plan Form)
3. **Exceeding the 120 credit maximum for baccalaureate degrees** *Exception to policy 301.11*
4. **Forming, eliminating or consolidating an academic, administrative, or research unit** (Curriculum or Center/Institute Proposal and Completed Intent to Plan Form, except when eliminating or consolidating)
5. **Re-titling an academic, administrative, or research unit**

**Proposal Summary [360 words maximum]**

**What**

The University of Montana-Missoula is notifying the Montana Board of Regents of its intent to create a graduate Advising certificate.

**Why**

Based on the success of the UM's Office of Student Success internal training program for new academic advisors and the subsequent demand for enhanced professional preparation, we are creating this fully online advising certificate that adheres to the National Academic Advising Association (NACADA) standards. In addition to providing robust professional preparation, this interdisciplinary certificate is a stackable credential that can lead to a M.Ed. in Educational Leadership or Teaching and Learning or to a M.A. in Education through the Department of Teaching and Learning. This certificate program will be available across Montana and across the country.

**Resources**

Existing classes and resources are sufficient to support the certificate.

**Relationship to similar MUS programs**

There are no other similar programs in the MUS.

December 2019

ITEM 187-1009-LI1219

**Notification of the establishment of a graduate certificate in Data Visualization**

---

**THAT**

The University of Montana-Missoula is notifying the Montana Board of Regents of its intent to create a certificate in Data Visualization.

---

**EXPLANATION**

Learning how to translate data into graphics, images, and interactive designs that effectively engage and inform the viewer is both an art and a science. Specific knowledge and skills are required from the planning stages to the final presentation. The 12 credit Data Visualization Certificate provides an interdisciplinary approach to prepare students to use data to communicate information clearly and effectively.

---

**ATTACHMENTS**

Academic Proposal Request Form

**Montana Board of Regents**  
**ACADEMIC PROPOSAL REQUEST FORM**

ITEM 187-1009-LI1219 Submission Month or Meeting: December 2019

Institution: University of Montana-Missoula CIP Code: 30.9999

Program/Center/Institute Title: Data Visualization graduate certificate

Includes (please specify below): Online Offering \_\_\_\_\_ Options \_\_\_\_\_

Please mark the appropriate type of request and submit with an Item Template and any additional materials, including those listed in parentheses following the type of request. For more information pertaining to the types of requests listed below, how to complete an item request, or additional forms please visit <http://mus.edu/che/arsa/academicproposals.asp>.

x **A. Level I:**

**Campus Approvals**

- \_\_\_\_\_ 1a. **Placing a postsecondary educational program into moratorium** (Program Termination and Moratorium Form)
- \_\_\_\_\_ 1b. **Withdrawing a postsecondary educational program from moratorium**
- x \_\_\_\_\_ 2. **Establishing, re-titling, terminating or revising a campus certificate of 29 credits or less**
- \_\_\_\_\_ 3. **Establishing a B.A.S./A.A./A.S. area of study**
- \_\_\_\_\_ 4. **Offering an existing postsecondary educational program via distance or online delivery**

**OCHE Approvals**

- \_\_\_\_\_ 5. **Re-titling an existing postsecondary educational program**
- \_\_\_\_\_ 6. **Terminating an existing postsecondary educational program** (Program Termination and Moratorium Form)
- \_\_\_\_\_ 7. **Consolidating existing postsecondary educational programs** (Curriculum Proposal Form)
- \_\_\_\_\_ 8. **Establishing a new minor where there is a major or an option in a major** (Curriculum Proposal Form)
- \_\_\_\_\_ 9. **Revising a postsecondary educational program** (Curriculum Proposal Form)
- \_\_\_\_\_ 10. **Establishing a temporary C.A.S. or A.A.S. degree program** *Approval limited to 2 years*

**Montana Board of Regents**  
**ACADEMIC PROPOSAL REQUEST FORM**

**B. Level II:**

1. **Establishing a new postsecondary educational program** (Curriculum Proposal and Completed Intent to Plan Form)
2. **Permanent authorization for a temporary C.A.S. or A.A.S degree program** (Curriculum Proposal and Completed Intent to Plan Form)
3. **Exceeding the 120 credit maximum for baccalaureate degrees** *Exception to policy 301.11*
4. **Forming, eliminating or consolidating an academic, administrative, or research unit** (Curriculum or Center/Institute Proposal and Completed Intent to Plan Form, except when eliminating or consolidating)
5. **Re-titling an academic, administrative, or research unit**

**Proposal Summary [360 words maximum]**

**What**

The University of Montana-Missoula is notifying the Montana Board of Regents of its intent to create a graduate Data Visualization certificate.

**Why**

Data visualization is a critical tool in today's data-focused world. An enormous amount of data is gathered, analyzed, and stored. Understanding the data, or presenting it in meaningful ways, is a challenge. Therefore, data visualizations are becoming an essential component of presentations. They help increase understanding, improve information retention, and engage the audience. This change is requested to provide focus to key courses that offer the interdisciplinary fundamentals needed to produce effective data visualizations. Anyone needing to communicate information clearly and effectively to an audience, will benefit from participating in this program.

**Resources**

Existing classes and resources are sufficient to support the certificate.

**Relationship to similar MUS programs**

There are no other similar programs in the MUS. Big Data programs exist in the MUS, however, those focus on capturing, analyzing, and storing data. The focus of the Data Visualization Certificate is to use art, communication skills, and graphical tools to identify patterns and convey information from complex data. The two complement each other.

December 2019

ITEM 187-1010-LI1219

**Notification of the establishment of Addiction Studies CTS**

---

**THAT**

Missoula College is notifying the Montana Board of Regents of its intent to create a 28-credit certificate of technical studies in Addiction Studies.

---

**EXPLANATION**

This certificate meets the educational component required by the Board of Behavioral Health leading to Application for state licensure as an Addiction Counselor Licensed Candidate (ACLC).

---

**ATTACHMENTS**

Academic Proposal Request Form

**Montana Board of Regents**  
**ACADEMIC PROPOSAL REQUEST FORM**

ITEM 187-1010-LI1219 Submission Month or Meeting: December 2019

Institution: Missoula College-UM CIP Code: \_\_\_\_\_

Program/Center/Institute Title: Addiction Studies C.T.S.

Includes (please specify below): Online Offering \_\_\_\_\_ Options \_\_\_\_\_

Please mark the appropriate type of request and submit with an Item Template and any additional materials, including those listed in parentheses following the type of request. For more information pertaining to the types of requests listed below, how to complete an item request, or additional forms please visit <http://mus.edu/che/arsa/academicproposals.asp>.

x **A. Level I:**

**Campus Approvals**

\_\_\_\_\_ 1a. **Placing a postsecondary educational program into moratorium** (Program Termination and Moratorium Form)

\_\_\_\_\_ 1b. **Withdrawing a postsecondary educational program from moratorium**

x \_\_\_\_\_ 2. **Establishing, re-titling, terminating or revising a campus certificate of 29 credits or less**

\_\_\_\_\_ 3. **Establishing a B.A.S./A.A./A.S. area of study**

\_\_\_\_\_ 4. **Offering an existing postsecondary educational program via distance or online delivery**

**OCHE Approvals**

\_\_\_\_\_ 5. **Re-titling an existing postsecondary educational program**

\_\_\_\_\_ 6. **Terminating an existing postsecondary educational program** (Program Termination and Moratorium Form)

\_\_\_\_\_ 7. **Consolidating existing postsecondary educational programs** (Curriculum Proposal Form)

\_\_\_\_\_ 8. **Establishing a new minor where there is a major or an option in a major** (Curriculum Proposal Form)

\_\_\_\_\_ 9. **Revising a postsecondary educational program** (Curriculum Proposal Form)

\_\_\_\_\_ 10. **Establishing a temporary C.A.S. or A.A.S. degree program** *Approval limited to 2 years*

**Montana Board of Regents**  
**ACADEMIC PROPOSAL REQUEST FORM**

**B. Level II:**

1. **Establishing a new postsecondary educational program** (Curriculum Proposal and Completed Intent to Plan Form)
2. **Permanent authorization for a temporary C.A.S. or A.A.S degree program** (Curriculum Proposal and Completed Intent to Plan Form)
3. **Exceeding the 120 credit maximum for baccalaureate degrees** *Exception to policy 301.11*
4. **Forming, eliminating or consolidating an academic, administrative, or research unit** (Curriculum or Center/Institute Proposal and Completed Intent to Plan Form, except when eliminating or consolidating)
5. **Re-titling an academic, administrative, or research unit**

**Proposal Summary [360 words maximum]**

**What**

Missoula College is notifying the Montana Board of Regents of its intent to create a 28-credit certificate of technical studies in Addiction Studies.

**Why**

**Resources**

There are no new resources requested. The courses and faculty are already present at Missoula College.

**Relationship to similar MUS programs**

There are some pathways in addiction (e.g. Dawson Community College and Flathead Valley Community College offer an Associates Degree in CD counseling), there is no Certificate of Technical Studies being offered in Montana.



**December 2019**

**ITEM 187-1011-LI1219**

**Notification of the establishment of a certificate in Business**

---

**THAT**

The University of Montana is notifying the Montana Board of Regents of its intent to establish a 15-credit certificate in Business.

---

**EXPLANATION**

The certificate creates a flexible, streamlined business credential for students that cannot fit the 28-credit minor in Business into their schedule. It also provides the foundation courses required for admission to the Masters of Business Administration program.

---

**ATTACHMENTS**

Academic Proposal Request Form

**Montana Board of Regents**  
**ACADEMIC PROPOSAL REQUEST FORM**

ITEM 187-1011-LI1219 Submission Month or Meeting: December 2019

Institution: University of Montana CIP Code: 52

Program/Center/Institute Title: Business Certificate

Includes (please specify below): Online Offering X Options \_\_\_\_\_

Please mark the appropriate type of request and submit with an Item Template and any additional materials, including those listed in parentheses following the type of request. For more information pertaining to the types of requests listed below, how to complete an item request, or additional forms please visit <http://mus.edu/che/arsa/academicproposals.asp>.

X **A. Level I:**

**Campus Approvals**

- \_\_\_\_\_ 1a. **Placing a postsecondary educational program into moratorium** (Program Termination and Moratorium Form)
- \_\_\_\_\_ 1b. **Withdrawing a postsecondary educational program from moratorium**
- X 2. **Establishing, re-titling, terminating or revising a campus certificate of 29 credits or less**
- \_\_\_\_\_ 3. **Establishing a B.A.S./A.A./A.S. area of study**
- \_\_\_\_\_ 4. **Offering an existing postsecondary educational program via distance or online delivery**

**OCHE Approvals**

- \_\_\_\_\_ 5. **Re-titling an existing postsecondary educational program**
- \_\_\_\_\_ 6. **Terminating an existing postsecondary educational program** (Program Termination and Moratorium Form)
- \_\_\_\_\_ 7. **Consolidating existing postsecondary educational programs** (Curriculum Proposal Form)
- \_\_\_\_\_ 8. **Establishing a new minor where there is a major or an option in a major** (Curriculum Proposal Form)
- \_\_\_\_\_ 9. **Revising a postsecondary educational program** (Curriculum Proposal Form)
- \_\_\_\_\_ 10. **Establishing a temporary C.A.S. or A.A.S. degree program** *Approval limited to 2 years*

**Montana Board of Regents**  
**ACADEMIC PROPOSAL REQUEST FORM**

**B. Level II:**

1. **Establishing a new postsecondary educational program** (Curriculum Proposal and Completed Intent to Plan Form)
2. **Permanent authorization for a temporary C.A.S. or A.A.S degree program** (Curriculum Proposal and Completed Intent to Plan Form)
3. **Exceeding the 120 credit maximum for baccalaureate degrees** *Exception to policy 301.11*
4. **Forming, eliminating or consolidating an academic, administrative, or research unit** (Curriculum or Center/Institute Proposal and Completed Intent to Plan Form, except when eliminating or consolidating)
5. **Re-titling an academic, administrative, or research unit**

**Proposal Summary [360 words maximum]**

**What**

The University of Montana is notifying the Montana Board of Regents of its intent to establish a 15-credit certificate in Business.

**Why**

The certificate creates a flexible, streamlined business credential for undergraduate non-business majors. The existing 28-credit minor in Business is designed for students early in their academic careers to add a business credential to their existing major. Students who discover the minor late in their academic careers are reluctant to complete it due to its heavy credit requirements. The certificate provides a more accessible business credential for these students, and provides the foundation courses required for admission to the Masters of Business Administration program for students planning to pursue advanced study.

**Resources**

There are no additional resources needed for the certificate at this time, as it is composed of already-existing courses.

**Relationship to similar MUS programs**

The content of the certificate is similar to Business minors, but offers a more streamlined option for students late in their academic careers or for preparation for pursuit of a Masters in Business Administration.

**December 2019**

**ITEM 187-1012-LI1219**

**Notification of the establishment of a C.T.S. in Cloud Computing**

---

**THAT**

Missoula College is notifying the Montana Board of Regents of its intent to establish an 18 credit certificate of technical skills in Cloud Computing.

---

**EXPLANATION**

Cloud computing has become integral to modern business. Careers in cloud computing are in high demand and are high-paying. This certificate includes fundamental skills for cloud computing administrators and programmers, and provides the groundwork for students to work towards industry certifications in cloud computing.

---

**ATTACHMENTS**

Academic Proposal Request Form

**Montana Board of Regents**  
**ACADEMIC PROPOSAL REQUEST FORM**

ITEM 187-1012-LI1219 Submission Month or Meeting: December 2019

Institution: Missoula College-UM CIP Code: 11.0902

Program/Center/Institute Title: Cloud Computing C.T.S.

Includes (please specify below): Online Offering \_\_\_\_\_ Options \_\_\_\_\_

Please mark the appropriate type of request and submit with an Item Template and any additional materials, including those listed in parentheses following the type of request. For more information pertaining to the types of requests listed below, how to complete an item request, or additional forms please visit <http://mus.edu/che/arsa/academicproposals.asp>.

     **A. Level I:**

**Campus Approvals**

- 1a. Placing a postsecondary educational program into moratorium** (Program Termination and Moratorium Form)
- 1b. Withdrawing a postsecondary educational program from moratorium**
- X **2. Establishing, re-titling, terminating or revising a campus certificate of 29 credits or less**
- 3. Establishing a B.A.S./A.A./A.S. area of study**
- 4. Offering an existing postsecondary educational program via distance or online delivery**

**OCHE Approvals**

- 5. Re-titling an existing postsecondary educational program**
- 6. Terminating an existing postsecondary educational program** (Program Termination and Moratorium Form)
- 7. Consolidating existing postsecondary educational programs** (Curriculum Proposal Form)
- 8. Establishing a new minor where there is a major or an option in a major** (Curriculum Proposal Form)
- 9. Revising a postsecondary educational program** (Curriculum Proposal Form)
- 10. Establishing a temporary C.A.S. or A.A.S. degree program** *Approval limited to 2 years*

**Montana Board of Regents**  
**ACADEMIC PROPOSAL REQUEST FORM**

**B. Level II:**

1. **Establishing a new postsecondary educational program** (Curriculum Proposal and Completed Intent to Plan Form)
2. **Permanent authorization for a temporary C.A.S. or A.A.S degree program** (Curriculum Proposal and Completed Intent to Plan Form)
3. **Exceeding the 120 credit maximum for baccalaureate degrees** *Exception to policy 301.11*
4. **Forming, eliminating or consolidating an academic, administrative, or research unit** (Curriculum or Center/Institute Proposal and Completed Intent to Plan Form, except when eliminating or consolidating)
5. **Re-titling an academic, administrative, or research unit**

**Proposal Summary [360 words maximum]**

**What**

Missoula College is notifying the Montana Board of Regents of its intent to establish an 18 credit certificate of technical skills in Cloud Computing.

**Why**

Cloud computing skills are among the top-paid IT skills and are highly sought-after by companies. This certificate aims to fill a gap in offerings by providing fundamental building blocks for cloud skills that will prepare students to enter the job market, and to pursue further industry certification.

**Resources**

There are no additional resources required at this time.

**Relationship to similar MUS programs**

There are no courses in the MUS that are specifically designed to provide cloud computing skills.

December 2019

ITEM 187-1013-LI1219

**Notification of the establishment of an undergraduate certificate in Data Visualization.**

---

**THAT**

The University of Montana is notifying the Montana Board of Regents of its intent to establish a 12-credit undergraduate certificate in Data Visualization.

---

**EXPLANATION**

Data visualization is a critical tool in today's data-focused world, and understanding data and presenting it in meaningful ways is challenging. Therefore, data visualizations are becoming an essential component of presentations. They help increase understanding, improve information retention, and engage the audience. This change is requested to provide focus to key courses that offer the interdisciplinary fundamentals needed to produce effective data visualizations.

---

**ATTACHMENTS**

Academic Proposal Request Form

**Montana Board of Regents**  
**ACADEMIC PROPOSAL REQUEST FORM**

ITEM 187-1013-LI1219 Submission Month or Meeting: December 2019

Institution: University of Montana CIP Code: 30.9999

Program/Center/Institute Title: Data Visualization undergraduate certificate

Includes (please specify below): Online Offering X Options \_\_\_\_\_

Please mark the appropriate type of request and submit with an Item Template and any additional materials, including those listed in parentheses following the type of request. For more information pertaining to the types of requests listed below, how to complete an item request, or additional forms please visit <http://mus.edu/che/arsa/academicproposals.asp>.

X **A. Level I:**

**Campus Approvals**

- \_\_\_\_\_ 1a. **Placing a postsecondary educational program into moratorium** (Program Termination and Moratorium Form)
- \_\_\_\_\_ 1b. **Withdrawing a postsecondary educational program from moratorium**
- X 2. **Establishing, re-titling, terminating or revising a campus certificate of 29 credits or less**
- \_\_\_\_\_ 3. **Establishing a B.A.S./A.A./A.S. area of study**
- \_\_\_\_\_ 4. **Offering an existing postsecondary educational program via distance or online delivery**

**OCHE Approvals**

- \_\_\_\_\_ 5. **Re-titling an existing postsecondary educational program**
- \_\_\_\_\_ 6. **Terminating an existing postsecondary educational program** (Program Termination and Moratorium Form)
- \_\_\_\_\_ 7. **Consolidating existing postsecondary educational programs** (Curriculum Proposal Form)
- \_\_\_\_\_ 8. **Establishing a new minor where there is a major or an option in a major** (Curriculum Proposal Form)
- \_\_\_\_\_ 9. **Revising a postsecondary educational program** (Curriculum Proposal Form)
- \_\_\_\_\_ 10. **Establishing a temporary C.A.S. or A.A.S. degree program** *Approval limited to 2 years*



**Montana Board of Regents**  
**ACADEMIC PROPOSAL REQUEST FORM**

**B. Level II:**

1. **Establishing a new postsecondary educational program** (Curriculum Proposal and Completed Intent to Plan Form)
2. **Permanent authorization for a temporary C.A.S. or A.A.S degree program** (Curriculum Proposal and Completed Intent to Plan Form)
3. **Exceeding the 120 credit maximum for baccalaureate degrees** *Exception to policy 301.11*
4. **Forming, eliminating or consolidating an academic, administrative, or research unit** (Curriculum or Center/Institute Proposal and Completed Intent to Plan Form, except when eliminating or consolidating)
5. **Re-titling an academic, administrative, or research unit**

**Proposal Summary [360 words maximum]**

**What**

The University of Montana is notifying the Montana Board of Regents of its intent to establish a 12-credit undergraduate certificate in Data Visualization.

**Why**

The Data Visualization Certificate brings together instructors and courses from diverse disciplines to provide students with the broad knowledge and specific hands-on skills required to build meaningful data visualizations. Data visualization is a critical tool in today's data-focused world, and understanding data and presenting it in meaningful ways is challenging. Therefore, data visualizations are becoming an essential component of presentations. They help increase understanding, improve information retention, and engage the audience. This change is requested to provide focus to key courses that offer the interdisciplinary fundamentals needed to produce effective data visualizations. This certificate program will have wide appeal across academic disciplines and is ideal for anyone needing to communicate complex data or ideas in a clear effective way.

**Resources**

There are no additional resources required at this time.

**Relationship to similar MUS programs**

UM College of Business, and the departments of Computer Science and Math, offer a Big Data Analytics Certificate. However, its main focus is on capturing, analyzing, and storing data. The focus of the Data Visualization Certificate is to use art, communication skills, and graphical tools to identify patterns and convey information from complex data. The two are complementary and ultimately serve different purposes.

December 2019

**ITEM 187-1014-LI1219**

**Notification of the intent to place the Energy Auditor Certificate into moratorium**

---

**THAT**

Missoula College is notifying the Montana Board of Regents of its intent to place the Energy Auditor certificate in moratorium.

---

**EXPLANATION**

Student interest has declined and the program is no longer viable.

---

**ATTACHMENTS**

Academic Proposal Request Form  
Program Termination Form

**Montana Board of Regents**  
**ACADEMIC PROPOSAL REQUEST FORM**

ITEM 187-1014-LI1219 Submission Month or Meeting: December 2019

Institution: Missoula College-UM CIP Code: 15.0503

Program/Center/Institute Title: Energy Auditor Certificate Moratorium

Includes (please specify below): Online Offering \_\_\_\_\_ Options \_\_\_\_\_

Please mark the appropriate type of request and submit with an Item Template and any additional materials, including those listed in parentheses following the type of request. For more information pertaining to the types of requests listed below, how to complete an item request, or additional forms please visit <http://mus.edu/che/arsa/academicproposals.asp>.

x **A. Level I:**

**Campus Approvals**

- x **1a. Placing a postsecondary educational program into moratorium** (Program Termination and Moratorium Form)
- \_\_\_\_\_ **1b. Withdrawing a postsecondary educational program from moratorium**
- \_\_\_\_\_ **2. Establishing, re-titling, terminating or revising a campus certificate of 29 credits or less**
- \_\_\_\_\_ **3. Establishing a B.A.S./A.A./A.S. area of study**
- \_\_\_\_\_ **4. Offering an existing postsecondary educational program via distance or online delivery**

**OCHE Approvals**

- \_\_\_\_\_ **5. Re-titling an existing postsecondary educational program**
- \_\_\_\_\_ **6. Terminating an existing postsecondary educational program** (Program Termination and Moratorium Form)
- \_\_\_\_\_ **7. Consolidating existing postsecondary educational programs** (Curriculum Proposal Form)
- \_\_\_\_\_ **8. Establishing a new minor where there is a major or an option in a major** (Curriculum Proposal Form)
- \_\_\_\_\_ **9. Revising a postsecondary educational program** (Curriculum Proposal Form)
- \_\_\_\_\_ **10. Establishing a temporary C.A.S. or A.A.S. degree program** *Approval limited to 2 years*

**Montana Board of Regents**  
**ACADEMIC PROPOSAL REQUEST FORM**

**B. Level II:**

1. **Establishing a new postsecondary educational program** (Curriculum Proposal and Completed Intent to Plan Form)
2. **Permanent authorization for a temporary C.A.S. or A.A.S degree program** (Curriculum Proposal and Completed Intent to Plan Form)
3. **Exceeding the 120 credit maximum for baccalaureate degrees** *Exception to policy 301.11*
4. **Forming, eliminating or consolidating an academic, administrative, or research unit** (Curriculum or Center/Institute Proposal and Completed Intent to Plan Form, except when eliminating or consolidating)
5. **Re-titling an academic, administrative, or research unit**

**Proposal Summary [360 words maximum]**

**What**

Missoula College is notifying the Montana Board of Regents of its intent to place the Energy Auditor certificate in moratorium.

**Why**

Student interest has declined and the program is no longer viable. No students are currently enrolled in this program.

**Resources**

NA

**Relationship to similar MUS programs**

N/A

**Montana University System**  
**PROGRAM TERMINATION/MORATORIUM FORM**

Please complete the following questionnaire prior to submission of a program for termination or placement into moratorium. Please add additional comments beneath each question where applicable.

Program Title: **Energy Auditor Certificate**

Program is being   X   Placed into moratorium        Terminated

1. Are there currently students enrolled in the program? (If yes, please answer questions a - c below.) Y:        N:   X  

a.) Have all students currently enrolled in the program been met with and informed of the impending termination/moratorium? Y:        N:       

N/A

b.) What is the expected graduation date of all students from the program?

N/A

c.) Have course offerings been planned to allow for students in the program to complete the degree in a reasonable fashion? Y:        N:       

N/A

2. Will any faculty layoffs or changes in working conditions occur because of the termination/moratorium? (If yes, please answer questions a - b below.) Y:        N:   X  

a.) Have the faculty affected by the program termination/moratorium been notified? Y:        N:

**Montana University System**  
**PROGRAM TERMINATION/MORATORIUM FORM**

b.) Please describe any layoffs that will occur including the date expected?  
N/A

3. The following parties, where applicable, have been notified of the impending program termination/moratorium. (Please mark X for completed, NA for not applicable):

a.) Internal Curriculum Committees                          X    

b.) Faculty Senate        X    

c.) Program Public Advisory Committee                          N/A    

d.) Articulation Partners        N/A    

4. Has there been any negative feedback received from students, faculty, or other constituents regarding the impending termination/moratorium? (If yes, please explain below.)      Y:           N:   X

December 2019

ITEM 187-1015-LI1219

**Notification of the intent to retitle the Philosophy M.A. to Environmental Philosophy and place the environmental ethics option into moratorium.**

---

**THAT**

The University of Montana is notifying the Montana Board of Regents of its intent to retitle the Philosophy M.A. to Environmental Philosophy M.A. and place the environmental ethics option into moratorium.

---

**EXPLANATION**

While a growing number of students have chosen the environmental philosophy M.A. option, there have not been any students enrolled in the Philosophy M.A. for several years. Retitling the M.A. to Environmental Philosophy better reflects the focus of the program and reduces confusion among students.

---

**ATTACHMENTS**

Academic Proposal Request Form  
Program Termination Form

**Montana Board of Regents**  
**ACADEMIC PROPOSAL REQUEST FORM**

ITEM 187-1015-LI1219 Submission Month or Meeting: December 2019

Institution: University of Montana CIP Code: 38.0199

Program/Center/Institute Title: Philosophy

Includes (please specify below): Online Offering \_\_\_\_\_ Options \_\_\_\_\_

Please mark the appropriate type of request and submit with an Item Template and any additional materials, including those listed in parentheses following the type of request. For more information pertaining to the types of requests listed below, how to complete an item request, or additional forms please visit <http://mus.edu/che/arsa/academicproposals.asp>.

X **A. Level I:**

**Campus Approvals**

- X 1a. **Placing a postsecondary educational program into moratorium** (Program Termination and Moratorium Form)
- \_\_\_\_\_ 1b. **Withdrawing a postsecondary educational program from moratorium**
- \_\_\_\_\_ 2. **Establishing, re-titling, terminating or revising a campus certificate of 29 credits or less**
- \_\_\_\_\_ 3. **Establishing a B.A.S./A.A./A.S. area of study**
- \_\_\_\_\_ 4. **Offering an existing postsecondary educational program via distance or online delivery**

**OCHE Approvals**

- X 5. **Re-titling an existing postsecondary educational program**
- \_\_\_\_\_ 6. **Terminating an existing postsecondary educational program** (Program Termination and Moratorium Form)
- \_\_\_\_\_ 7. **Consolidating existing postsecondary educational programs** (Curriculum Proposal Form)
- \_\_\_\_\_ 8. **Establishing a new minor where there is a major or an option in a major** (Curriculum Proposal Form)
- \_\_\_\_\_ 9. **Revising a postsecondary educational program** (Curriculum Proposal Form)
- \_\_\_\_\_ 10. **Establishing a temporary C.A.S. or A.A.S. degree program** *Approval limited to 2 years*



**Montana Board of Regents**  
**ACADEMIC PROPOSAL REQUEST FORM**

**B. Level II:**

1. **Establishing a new postsecondary educational program** (Curriculum Proposal and Completed Intent to Plan Form)
2. **Permanent authorization for a temporary C.A.S. or A.A.S degree program** (Curriculum Proposal and Completed Intent to Plan Form)
3. **Exceeding the 120 credit maximum for baccalaureate degrees** *Exception to policy 301.11*
4. **Forming, eliminating or consolidating an academic, administrative, or research unit** (Curriculum or Center/Institute Proposal and Completed Intent to Plan Form, except when eliminating or consolidating)
5. **Re-titling an academic, administrative, or research unit**

**Proposal Summary [360 words maximum]**

**What**

The University of Montana is notifying the Montana Board of Regents of its intent to retitle the Philosophy M.A. to Environmental Philosophy and place the environmental ethics option into moratorium.

**Why**

While a growing number of students have chosen the environmental philosophy M.A. option, there have not been any students enrolled in the Philosophy M.A. for several years. Retitling the M.A. to Environmental Philosophy better reflects the focus of the program and reduces confusion among students.

**Resources**

There are no additional resources required for this change.

**Relationship to similar MUS programs**

This is the only program of its kind in the MUS.

**Montana University System**  
**PROGRAM TERMINATION/MORATORIUM FORM**

Please complete the following questionnaire prior to submission of a program for termination or placement into moratorium. Please add additional comments beneath each question where applicable.

Program Title:

Program is being  Placed into moratorium  Terminated

1. Are there currently students enrolled in the program? (If yes, please answer questions a - c below.) Y:  N:

a.) Have all students currently enrolled in the program been met with and informed of the impending termination/moratorium? Y:  N:

b.) What is the expected graduation date of all students from the program?

c.) Have course offerings been planned to allow for students in the program to complete the degree in a reasonable fashion? Y:  N:

2. Will any faculty layoffs or changes in working conditions occur because of the termination/moratorium? (If yes, please answer questions a - b below.) Y:  N:

a.) Have the faculty affected by the program termination/moratorium been notified? Y:  N:

b.) Please describe any layoffs that will occur including the date expected?

**Montana University System**  
**PROGRAM TERMINATION/MORATORIUM FORM**

3. The following parties, where applicable, have been notified of the impending program termination/moratorium. (Please mark X for completed, NA for not applicable):

a.) Internal Curriculum Committees                          X    

b.) Faculty Senate        X    

c.) Program Public Advisory Committee                          N/A    

d.) Articulation Partners        N/A    

4. Has there been any negative feedback received from students, faculty, or other constituents regarding the impending termination/moratorium? (If yes, please explain below.)      Y:           N:   X

December 2019

ITEM 187-1016-LI1219

**Notification of the intent to place the Recycling Technology certificate into moratorium.**

---

**THAT**

Missoula College is notifying the Montana Board of Regents of its intent to place the Recycling Technology certificate into moratorium.

---

**EXPLANATION**

Student interest in the Recycling Technology certificate has declined and the program is no longer viable.

---

**ATTACHMENTS**

Academic Proposal Request Form  
Program Termination Form

**Montana Board of Regents**  
**ACADEMIC PROPOSAL REQUEST FORM**

ITEM 187-1016-LI1219 Submission Month or Meeting: December 2019

Institution: Missoula College-UM CIP Code: 15.0506

Program/Center/Institute Title: Recycling Technology certificate

Includes (please specify below): Online Offering \_\_\_\_\_ Options \_\_\_\_\_

Please mark the appropriate type of request and submit with an Item Template and any additional materials, including those listed in parentheses following the type of request. For more information pertaining to the types of requests listed below, how to complete an item request, or additional forms please visit <http://mus.edu/che/arsa/academicproposals.asp>.

x **A. Level I:**

**Campus Approvals**

x **1a. Placing a postsecondary educational program into moratorium** (Program Termination and Moratorium Form)

\_\_\_\_\_ **1b. Withdrawing a postsecondary educational program from moratorium**

\_\_\_\_\_ **2. Establishing, re-titling, terminating or revising a campus certificate of 29 credits or less**

\_\_\_\_\_ **3. Establishing a B.A.S./A.A./A.S. area of study**

\_\_\_\_\_ **4. Offering an existing postsecondary educational program via distance or online delivery**

**OCHE Approvals**

\_\_\_\_\_ **5. Re-titling an existing postsecondary educational program**

\_\_\_\_\_ **6. Terminating an existing postsecondary educational program** (Program Termination and Moratorium Form)

\_\_\_\_\_ **7. Consolidating existing postsecondary educational programs** (Curriculum Proposal Form)

\_\_\_\_\_ **8. Establishing a new minor where there is a major or an option in a major** (Curriculum Proposal Form)

\_\_\_\_\_ **9. Revising a postsecondary educational program** (Curriculum Proposal Form)

\_\_\_\_\_ **10. Establishing a temporary C.A.S. or A.A.S. degree program** *Approval limited to 2 years*

**Montana Board of Regents**  
**ACADEMIC PROPOSAL REQUEST FORM**

**B. Level II:**

1. **Establishing a new postsecondary educational program** (Curriculum Proposal and Completed Intent to Plan Form)
2. **Permanent authorization for a temporary C.A.S. or A.A.S degree program** (Curriculum Proposal and Completed Intent to Plan Form)
3. **Exceeding the 120 credit maximum for baccalaureate degrees** *Exception to policy 301.11*
4. **Forming, eliminating or consolidating an academic, administrative, or research unit** (Curriculum or Center/Institute Proposal and Completed Intent to Plan Form, except when eliminating or consolidating)
5. **Re-titling an academic, administrative, or research unit**

**Proposal Summary** [360 words maximum]

**What**

Missoula College is notifying the Montana Board of Regents of its intent to place the Recycling Technology certificate into moratorium.

**Why**

Student interest in the Recycling Technology certificate has declined and the program is no longer viable.

**Resources**

N/A

**Relationship to similar MUS programs**

N/A

December 2019

**ITEM 187-1017-LI1219**

**Notification of the establishment of a certificate in Sustainable Agriculture and Food Systems.**

---

**THAT**

The University of Montana is notifying the Montana Board of Regents of its intent to establish a 15-credit certificate in Sustainable Agriculture and Food Systems (SAFS).

---

**EXPLANATION**

The Environmental Studies department's focus on sustainable food and farming systems is one of the most popular elements of the B.A. This new certificate will enable undergraduate students of any major to earn a credential in a growing field. Knowledge of sustainable food systems is desirable and in-demand in many industries, including government sectors, non-governmental organizations, and businesses.

---

**ATTACHMENTS**

Academic Proposal Request Form

**Montana Board of Regents**  
**ACADEMIC PROPOSAL REQUEST FORM**

ITEM 187-1017-LI1219 Submission Month or Meeting: December 2019

Institution: University of Montana CIP Code: 01.0308

Program/Center/Institute Title: Sustainable Agriculture and Food Systems certificate

Includes (please specify below): Online Offering \_\_\_\_\_ Options \_\_\_\_\_

Please mark the appropriate type of request and submit with an Item Template and any additional materials, including those listed in parentheses following the type of request. For more information pertaining to the types of requests listed below, how to complete an item request, or additional forms please visit <http://mus.edu/che/arsa/academicproposals.asp>.

x **A. Level I:**

**Campus Approvals**

\_\_\_\_\_ 1a. **Placing a postsecondary educational program into moratorium** (Program Termination and Moratorium Form)

\_\_\_\_\_ 1b. **Withdrawing a postsecondary educational program from moratorium**

x \_\_\_\_\_ 2. **Establishing, re-titling, terminating or revising a campus certificate of 29 credits or less**

\_\_\_\_\_ 3. **Establishing a B.A.S./A.A./A.S. area of study**

\_\_\_\_\_ 4. **Offering an existing postsecondary educational program via distance or online delivery**

**OCHE Approvals**

\_\_\_\_\_ 5. **Re-titling an existing postsecondary educational program**

\_\_\_\_\_ 6. **Terminating an existing postsecondary educational program** (Program Termination and Moratorium Form)

\_\_\_\_\_ 7. **Consolidating existing postsecondary educational programs** (Curriculum Proposal Form)

\_\_\_\_\_ 8. **Establishing a new minor where there is a major or an option in a major** (Curriculum Proposal Form)

\_\_\_\_\_ 9. **Revising a postsecondary educational program** (Curriculum Proposal Form)

\_\_\_\_\_ 10. **Establishing a temporary C.A.S. or A.A.S. degree program** *Approval limited to 2 years*



**Montana Board of Regents**  
**ACADEMIC PROPOSAL REQUEST FORM**

**B. Level II:**

1. **Establishing a new postsecondary educational program** (Curriculum Proposal and Completed Intent to Plan Form)
2. **Permanent authorization for a temporary C.A.S. or A.A.S degree program** (Curriculum Proposal and Completed Intent to Plan Form)
3. **Exceeding the 120 credit maximum for baccalaureate degrees** *Exception to policy 301.11*
4. **Forming, eliminating or consolidating an academic, administrative, or research unit** (Curriculum or Center/Institute Proposal and Completed Intent to Plan Form, except when eliminating or consolidating)
5. **Re-titling an academic, administrative, or research unit**

**Proposal Summary [360 words maximum]**

**What**

The University of Montana is notifying the Montana Board of Regents of its intent to establish a 15-credite certificate in Sustainable Agriculture and Food Systems (SAFS).

**Why**

The Environmental Studies department's focus on sustainable food and farming systems is one of the most popular elements of the B.A. This new certificate will enable undergraduate students of any major to earn a credential in a growing field. Knowledge of sustainable food systems is desirable and in-demand in many industries, including government sectors, non-governmental organizations, and businesses.

**Resources**

There are no additional resources required.

**Relationship to similar MUS programs**

Environmental Studies currently offers a 21-credit certificate in Community Agriculture for undergraduates that combines food production with a focus on economic, health, and/or social justice concerns. That certificate requires a summer at the PEAS farm and a summer as an apprentice at another urban or community farm, which is a substantial commitment for students. The SAFS certificate will be accessible to more students and will give students from diverse disciplines a credential in sustainable food practices.

Additionally, Montana State University has an undergraduate major in Sustainable Food and Bioenergy Systems. UM's EVST department's informal emphasis in sustainable food and farming has continued to thrive and is distinct from the program at MSU. This certificate places considerable emphasis on civic engagement, social transformation, and increases a student's sense of contribution to the common good by producing tens of thousands of pounds of food for the Missoula Food Bank and others annually.

December 2019

ITEM 187-2010-L1219

**Item Name**

**Request for authorization to terminate the Minor in Photography-Non-Teaching**

---

**THAT**

The College of Art and Architecture at Montana State University hereby notifies the Board of Regents and the Office of the Commissioner of Higher Education of its intent to terminate the Minor of Photography-Non-Teaching.

**EXPLANATION**

In an ongoing effort by academic units to assess and review program curriculum, the School of Film and Photography is reviewing their curricula and discussing the best ways to serve students and prepare them for employment in the rapidly changing film and photography industry. The faculty have decided that the minor is not the most effective or most efficient way to bring the skills that might prepare non-majors to contribute in meaningful ways to this changing industry. The students in this minor will be taught out and graduate by 2020. The faculty in the School of Film and Photography remain committed to continuing to provide non-majors access to courses in photography that combine with their major fields of study in ways that add value to their education and degrees.

**ATTACHMENTS**

Academic Proposal  
Program Termination/Moratorium Form

Montana Board of Regents  
ACADEMIC PROPOSAL REQUEST FORM

ITEM 187-2010-L1219 Submission Month or Meeting: December, 2019

Institution: MSU-Bozeman CIP Code: \_\_\_\_\_

Program/Center/Institute Title: School of Film & Photography- Terminate Minor in Photography-Non-Teaching

Includes (please specify below): Online Offering \_\_\_\_\_ Options \_\_\_\_\_

Please mark the appropriate type of request and submit with an Item Template and any additional materials, including those listed in parentheses following the type of request. For more information pertaining to the types of requests listed below, how to complete an item request, or additional forms please visit <http://mus.edu/che/arsa/academicproposals.asp>.

     **A. Level I:**

**Campus Approvals**

- 1a. **Placing a postsecondary educational program into moratorium** (Program Termination and Moratorium Form)
- 1b. **Withdrawing a postsecondary educational program from moratorium**
- 2. **Establishing, re-titling, terminating or revising a campus certificate of 29 credits or less**
- 3. **Establishing a B.A.S./A.A./A.S. area of study**
- 4. **Offering an existing postsecondary educational program via distance or online delivery**

**OCHE Approvals**

- 5. **Re-titling an existing postsecondary educational program**
- X** 6. **Terminating an existing postsecondary educational program** (Program Termination and Moratorium Form)
- 7. **Consolidating existing postsecondary educational programs** (Curriculum Proposal Form)
- 8. **Establishing a new minor where there is a major or an option in a major** (Curriculum Proposal Form)
- 9. **Revising a postsecondary educational program** (Curriculum Proposal Form)
- 10. **Establishing a temporary C.A.S. or A.A.S. degree program** *Approval limited to 2 years*

**Montana Board of Regents**  
**ACADEMIC PROPOSAL REQUEST FORM**

**B. Level II:**

1. **Establishing a new postsecondary educational program** (Curriculum Proposal and Completed Intent to Plan Form)
2. **Permanent authorization for a temporary C.A.S. or A.A.S degree program** (Curriculum Proposal and Completed Intent to Plan Form)
3. **Exceeding the 120 credit maximum for baccalaureate degrees** *Exception to policy 301.11*
4. **Forming, eliminating or consolidating an academic, administrative, or research unit** (Curriculum or Center/Institute Proposal and Completed Intent to Plan Form, except when eliminating or consolidating)
5. **Re-titling an academic, administrative, or research unit**

**Proposal Summary [360 words maximum]**

**What** The School of Film & Photography requests that our non-teaching Minor in Photography be terminated. We request that this take effect in the 2020-2021 academic year.

**Why** In an ongoing effort by academic units to assess and review program curriculum, the School of Film and Photography is reviewing their curricula and discussing the best ways to serve students and prepare them for employment in the rapidly changing film and photography industry. The faculty have decided that the minor is not the most effective or most efficient way to bring the skills that might prepare non-majors to contribute in meaningful ways to this changing industry. The students in this minor will be taught out and graduate by 2020. The faculty in the School of Film and Photography remain committed to continuing to provide non-majors access to courses in photography that combine with their major fields of study in ways that add value to their education and degrees.

**Resources**

**Relationship to similar MUS programs**

**Montana University System**  
**PROGRAM TERMINATION/MORATORIUM FORM**

Please complete the following questionnaire prior to submission of a program for termination or placement into moratorium. Please add additional comments beneath each question where applicable.

Program Title: **Minor in Photography (non-teaching)**

Program is being  Placed into moratorium  Terminated

1. Are there currently students enrolled in the program? (If yes, please answer questions a - c below.) Y:  N:

a.) Have all students currently enrolled in the program been met with and informed of the impending termination/moratorium? Y:  N:

b.) What is the expected graduation date of all students from the program?

2020

c.) Have course offerings been planned to allow for students in the program to complete the degree in a reasonable fashion? Y:  N:

2. Will any faculty layoffs or changes in working conditions occur because of the termination/moratorium? (If yes, please answer questions a - b below.) Y:  N:

a.) Have the faculty affected by the program termination/moratorium been notified? Y:  N:

b.) Please describe any layoffs that will occur including the date expected? NA

**Montana University System**  
**PROGRAM TERMINATION/MORATORIUM FORM**

3. The following parties, where applicable, have been notified of the impending program termination/moratorium. (Please mark X for completed, NA for not applicable):

a.) Internal Curriculum Committees                          X    

b.) Faculty Senate        X    

c.) Program Public Advisory Committee                          NA    

d.) Articulation Partners        NA    

4. Has there been any negative feedback received from students, faculty, or other constituents regarding the impending termination/moratorium? (If yes, please explain below.)      Y:           N:   X

November 2019

**ITEM 187-1001-LI1219**

**Request for authorization to retitle Health and Human Performance B.S. to Integrated Physiology B.S.**

---

**THAT**

The University of Montana-Missoula requests authorization from the Montana Board of Regents to retitle the bachelor of science in Health and Human Performance.

---

**EXPLANATION**

Since the former Department of Health and Human Performance has been retitled to the School of Integrated Physiology and Athletic Training, it would be clearer for students to earn a degree that also reflects the title of Integrated Physiology. The new name accurately describes the degree.

---

**ATTACHMENTS**

Academic Proposal Request Form

**Montana Board of Regents**  
**ACADEMIC PROPOSAL REQUEST FORM**

ITEM 187-1001-LI1219 Submission Month or Meeting: December 2019

Institution: University of Montana-Missoula CIP Code: 26.0908

Program/Center/Institute Title: Integrated Physiology B.S. retitled from Health and Human Performance B.S.

Includes (please specify below): Online Offering \_\_\_\_\_ Options \_\_\_\_\_

Please mark the appropriate type of request and submit with an Item Template and any additional materials, including those listed in parentheses following the type of request. For more information pertaining to the types of requests listed below, how to complete an item request, or additional forms please visit <http://mus.edu/che/arsa/academicproposals.asp>.

x **A. Level I:**

**Campus Approvals**

- 1a. **Placing a postsecondary educational program into moratorium** (Program Termination and Moratorium Form)
- 1b. **Withdrawing a postsecondary educational program from moratorium**
- 2. **Establishing, re-titling, terminating or revising a campus certificate of 29 credits or less**
- 3. **Establishing a B.A.S./A.A./A.S. area of study**
- 4. **Offering an existing postsecondary educational program via distance or online delivery**

**OCHE Approvals**

- x   5. **Re-titling an existing postsecondary educational program**
- 6. **Terminating an existing postsecondary educational program** (Program Termination and Moratorium Form)
- 7. **Consolidating existing postsecondary educational programs** (Curriculum Proposal Form)
- 8. **Establishing a new minor where there is a major or an option in a major** (Curriculum Proposal Form)
- 9. **Revising a postsecondary educational program** (Curriculum Proposal Form)
- 10. **Establishing a temporary C.A.S. or A.A.S. degree program** *Approval limited to 2 years*



**Montana Board of Regents**  
**ACADEMIC PROPOSAL REQUEST FORM**

**B. Level II:**

1. **Establishing a new postsecondary educational program** (Curriculum Proposal and Completed Intent to Plan Form)
2. **Permanent authorization for a temporary C.A.S. or A.A.S degree program** (Curriculum Proposal and Completed Intent to Plan Form)
3. **Exceeding the 120 credit maximum for baccalaureate degrees** *Exception to policy 301.11*
4. **Forming, eliminating or consolidating an academic, administrative, or research unit** (Curriculum or Center/Institute Proposal and Completed Intent to Plan Form, except when eliminating or consolidating)
5. **Re-titling an academic, administrative, or research unit**

**Proposal Summary [360 words maximum]**

**What**

The University of Montana-Missoula requests authorization from the Montana Board of Regents to retitle the bachelor of science in Health and Human Performance

**Why**

Since the former Department of Health and Human Performance has been retitled to the School of Integrated Physiology and Athletic Training, it would be clearer for students to earn a degree that also reflects the title of Integrated Physiology. The new name accurately describes the degree.

**Resources**

Not applicable

**Relationship to similar MUS programs**

Not applicable

December 2019

ITEM 187-1002-LI1219

**Request for authorization to retitle Exercise Science Pre-Athletic Training option in Health and Human Performance B.S. to Pre-Athletic Training option**

---

**THAT**

The University of Montana-Missoula requests authorization from the Montana Board of Regents to retitle the Exercise Science Pre-Athletic Training option in the Health and Human Performance bachelor of science to Pre-Athletic Training.

---

**EXPLANATION**

Since the former Department of Health and Human Performance has been retitled to the School of Integrated Physiology and Athletic Training, the students hoping to matriculate through the Master's in Athletic Training program no longer need the name Exercise Science in front of their option name. The Health and Human Performance B.S. is concurrently proposed for a retitling. This is a better reflection of the curriculum and the faculty within the School of Integrated Physiology and Athletic Training.

---

**ATTACHMENTS**

Academic Proposal Request Form

**Montana Board of Regents**  
**ACADEMIC PROPOSAL REQUEST FORM**

ITEM 187-1002-LI1219 Submission Month or Meeting: December 2019

Institution: University of Montana-Missoula CIP Code: 26.0908

Program/Center/Institute Title: Pre-Athletic Training option retitled in Health and Human Performance B.S. (from Exercise Science Pre-Athletic Training)

Includes (please specify below): Online Offering \_\_\_\_\_ Options \_\_\_\_\_

Please mark the appropriate type of request and submit with an Item Template and any additional materials, including those listed in parentheses following the type of request. For more information pertaining to the types of requests listed below, how to complete an item request, or additional forms please visit <http://mus.edu/che/arsa/academicproposals.asp>.

x **A. Level I:**

**Campus Approvals**

- \_\_\_\_\_ **1a. Placing a postsecondary educational program into moratorium** (Program Termination and Moratorium Form)
- \_\_\_\_\_ **1b. Withdrawing a postsecondary educational program from moratorium**
- \_\_\_\_\_ **2. Establishing, re-titling, terminating or revising a campus certificate of 29 credits or less**
- \_\_\_\_\_ **3. Establishing a B.A.S./A.A./A.S. area of study**
- \_\_\_\_\_ **4. Offering an existing postsecondary educational program via distance or online delivery**

**OCHE Approvals**

- x \_\_\_\_\_ **5. Re-titling an existing postsecondary educational program**
- \_\_\_\_\_ **6. Terminating an existing postsecondary educational program** (Program Termination and Moratorium Form)
- \_\_\_\_\_ **7. Consolidating existing postsecondary educational programs** (Curriculum Proposal Form)
- \_\_\_\_\_ **8. Establishing a new minor where there is a major or an option in a major** (Curriculum Proposal Form)
- \_\_\_\_\_ **9. Revising a postsecondary educational program** (Curriculum Proposal Form)
- \_\_\_\_\_ **10. Establishing a temporary C.A.S. or A.A.S. degree program** *Approval limited to 2 years*

**Montana Board of Regents**  
**ACADEMIC PROPOSAL REQUEST FORM**

**B. Level II:**

1. **Establishing a new postsecondary educational program** (Curriculum Proposal and Completed Intent to Plan Form)
2. **Permanent authorization for a temporary C.A.S. or A.A.S degree program** (Curriculum Proposal and Completed Intent to Plan Form)
3. **Exceeding the 120 credit maximum for baccalaureate degrees** *Exception to policy 301.11*
4. **Forming, eliminating or consolidating an academic, administrative, or research unit** (Curriculum or Center/Institute Proposal and Completed Intent to Plan Form, except when eliminating or consolidating)
5. **Re-titling an academic, administrative, or research unit**

**Proposal Summary [360 words maximum]**

**What**

The University of Montana-Missoula is notifying the Montana Board of Regents of its intent to retitle the Exercise Science Pre-Athletic Training option in the Health and Human Performance bachelor of science to Pre-Athletic Training.

**Why**

Since the former Department of Health and Human Performance has been retitled to the School of Integrated Physiology and Athletic Training, the students hoping to matriculate through the Master's in Athletic Training program no longer need the name Exercise Science in front of their option name. The Health and Human Performance B.S. is concurrently proposed for a retitling. This is a better reflection of the curriculum and the faculty within the School of Integrated Physiology and Athletic Training.

**Resources**

Not applicable

**Relationship to similar MUS programs**

NA

December 2019

ITEM 187-1003-LI1219

**Request for authorization to retitle Public and Community Health option in Health and Human Performance B.S. to Sports Medicine option**

---

**THAT**

The University of Montana-Missoula requests authorization from the Montana Board of Regents to retitle the Public and Community Health option in the Health and Human Performance bachelor of science to Sports Medicine.

---

**EXPLANATION**

Since the former Department of Health and Human Performance has been retitled to the School of Integrated Physiology and Athletic Training, the faculty have reexamined the curriculum to best align with the program and School focus. Sports Medicine is a highly sought out program that will prepare students for a career in sports medicine, specifically athletic training.

---

**ATTACHMENTS**

Academic Proposal Request Form

**Montana Board of Regents**  
**ACADEMIC PROPOSAL REQUEST FORM**

ITEM 187-1003-LI1219 Submission Month or Meeting: December 2019

Institution: University of Montana-Missoula CIP Code: 31.0505

Program/Center/Institute Title: Public and Community Health option retitled in Health and Human Performance B.S. to Sports Medicine option

Includes (please specify below): Online Offering \_\_\_\_\_ Options \_\_\_\_\_

Please mark the appropriate type of request and submit with an Item Template and any additional materials, including those listed in parentheses following the type of request. For more information pertaining to the types of requests listed below, how to complete an item request, or additional forms please visit <http://mus.edu/che/arsa/academicproposals.asp>.

x **A. Level I:**

**Campus Approvals**

- \_\_\_\_\_ 1a. **Placing a postsecondary educational program into moratorium** (Program Termination and Moratorium Form)
- \_\_\_\_\_ 1b. **Withdrawing a postsecondary educational program from moratorium**
- \_\_\_\_\_ 2. **Establishing, re-titling, terminating or revising a campus certificate of 29 credits or less**
- \_\_\_\_\_ 3. **Establishing a B.A.S./A.A./A.S. area of study**
- \_\_\_\_\_ 4. **Offering an existing postsecondary educational program via distance or online delivery**

**OCHE Approvals**

- x \_\_\_\_\_ 5. **Re-titling an existing postsecondary educational program**
- \_\_\_\_\_ 6. **Terminating an existing postsecondary educational program** (Program Termination and Moratorium Form)
- \_\_\_\_\_ 7. **Consolidating existing postsecondary educational programs** (Curriculum Proposal Form)
- \_\_\_\_\_ 8. **Establishing a new minor where there is a major or an option in a major** (Curriculum Proposal Form)
- \_\_\_\_\_ 9. **Revising a postsecondary educational program** (Curriculum Proposal Form)
- \_\_\_\_\_ 10. **Establishing a temporary C.A.S. or A.A.S. degree program** *Approval limited to 2 years*

**Montana Board of Regents**  
**ACADEMIC PROPOSAL REQUEST FORM**

**B. Level II:**

1. **Establishing a new postsecondary educational program** (Curriculum Proposal and Completed Intent to Plan Form)
2. **Permanent authorization for a temporary C.A.S. or A.A.S degree program** (Curriculum Proposal and Completed Intent to Plan Form)
3. **Exceeding the 120 credit maximum for baccalaureate degrees** *Exception to policy 301.11*
4. **Forming, eliminating or consolidating an academic, administrative, or research unit** (Curriculum or Center/Institute Proposal and Completed Intent to Plan Form, except when eliminating or consolidating)
5. **Re-titling an academic, administrative, or research unit**

**Proposal Summary [360 words maximum]**

**What**

The University of Montana-Missoula is notifying the Montana Board of Regents of its intent to retitle the Exercise Science Pre-Athletic Training option in the Health and Human Performance bachelor of science to Pre-Athletic Training.

**Why**

Since the former Department of Health and Human Performance has been retitled to the School of Integrated Physiology and Athletic Training, the faculty have reexamined the curriculum to best align with the program and School focus. Sports Medicine is a highly sought out program that will prepare students for a career in sports medicine, specifically athletic training. Students in the Pre-Athletic training option matriculate through the Masters in Athletic Training option. If students are not admitted to the MAT program, they will be able to switch into this Sports Medicine option.

**Resources**

Not applicable

**Relationship to similar MUS programs**

NA

**Montana Board of Regents**  
**ACADEMIC PROPOSAL REQUEST FORM**



January 2020

**ITEM 187-1501-LI1219**

**Request authorization to change the name of the A.S. in Drafting Technology to an A.S. in AEC Graphics Technology**

---

**THAT**

Highlands College of Montana Technological University requests authorization from the Montana Board of Regents to rename the Associate of Applied Science Program from Drafting Technology to AEC Graphics Technology.

---

**EXPLANATION**

The new name is the current industry identification for the architecture, engineering and construction (AEC) industry. Online job search results will be focused for drafting and design employment opportunities. This new program name also reflects the new department (Business and Industry) area of expertise.

---

**ATTACHMENTS**

Proposal Request Form

**Montana Board of Regents**  
**ACADEMIC PROPOSAL REQUEST FORM**

ITEM 187-1501-LI1219 Submission Month or Meeting: January 2020

Institution: Montana Technological University CIP Code: 15.1302

Program/Center/Institute Title: Drafting Technology

Includes (please specify below): Online Offering \_\_\_\_\_ Options \_\_\_\_\_

Please mark the appropriate type of request and submit with an Item Template and any additional materials, including those listed in parentheses following the type of request. For more information pertaining to the types of requests listed below, how to complete an item request, or additional forms please visit <http://mus.edu/che/arsa/academicproposals.asp>.

     **A. Level I:**

**Campus Approvals**

- 1a. **Placing a postsecondary educational program into moratorium** (Program Termination and Moratorium Form)
- 1b. **Withdrawing a postsecondary educational program from moratorium**
- 2. **Establishing, re-titling, terminating or revising a campus certificate of 29 credits or less**
- 3. **Establishing a B.A.S./A.A./A.S. area of study**
- 4. **Offering an existing postsecondary educational program via distance or online delivery**

**OCHE Approvals**

- x** 5. **Re-titling an existing postsecondary educational program**
- 6. **Terminating an existing postsecondary educational program** (Program Termination and Moratorium Form)
- 7. **Consolidating existing postsecondary educational programs** (Curriculum Proposal Form)
- 8. **Establishing a new minor where there is a major or an option in a major** (Curriculum Proposal Form)
- 9. **Revising a postsecondary educational program** (Curriculum Proposal Form)
- 10. **Establishing a temporary C.A.S. or A.A.S. degree program** *Approval limited to 2 years*

**Montana Board of Regents**  
**ACADEMIC PROPOSAL REQUEST FORM**

**B. Level II:**

- \_\_\_\_\_ **1. Establishing a new postsecondary educational program** (Curriculum Proposal and Completed Intent to Plan Form)
- \_\_\_\_\_ **2. Permanent authorization for a temporary C.A.S. or A.A.S degree program** (Curriculum Proposal and Completed Intent to Plan Form)
- \_\_\_\_\_ **3. Exceeding the 120 credit maximum for baccalaureate degrees** *Exception to policy 301.11*
- \_\_\_\_\_ **4. Forming, eliminating or consolidating an academic, administrative, or research unit** (Curriculum or Center/Institute Proposal and Completed Intent to Plan Form, except when eliminating or consolidating)
- \_\_\_\_\_ **5. Re-titling an academic, administrative, or research unit**

**Proposal Summary [360 words maximum]**

**What:** Highlands College of Montana Technological University would like to rename the Associate of Applied Science Degree in Drafting Technology to the Associate of Applied Science Degree in AEC Graphics Technology.

**Why:** The new name is the current industry identification for the architecture, engineering and Construction (AEC) industry. Online job search results will be focused for drafting and design employment opportunities. The new program name will also reflect the new department – Business and Industry – area of expertise.

**Resources:** No new resources are needed.

**Relationship to similar MUS programs :** N/A

## LEVEL I MEMORANDUM

---

**DATE:** Feb. 1 2020

**TO:** Chief Academic Officers, Montana University System

**FROM:** Brock Tessman, Deputy Commissioner for Academic, Research, and Student Affairs

**RE:** January 2020 Level I Academic Items

---

Contained within this memorandum are Level I proposals submitted by the institutions of the Montana University System in January 2020. These proposals include items for which approval authority has been designated by the Board of Regents to the individual institutions or the Commissioner of Higher Education. These Level I items are being sent to you for your review. If you have concerns about a particular proposal, you should share those concerns with your colleagues at that institution and try to come to some understanding. If you cannot resolve your concerns, raise them at the Level I Chief Academic Officer's conference call on February 20<sup>th</sup>. Issues not resolved at that meeting should be submitted in writing to OCHE by noon on Friday, February 21<sup>st</sup>. You will be notified of approved proposals by February 25<sup>th</sup>. The Board of Regents will be notified of the approved proposals at the May meeting of the Board.

### 1. Campus Approvals

NONE

### 2. OCHE Approvals

#### **The University of Montana Missoula:**

- Request for authorization to consolidate the Ecosystem Science and Restoration B.S. and the Resource Conservation B.S. into the Environmental Science and Sustainability B.S.  
[Item #1001-LI0120](#) | [Request Form](#) | [Curriculum Form](#)
- Request for authorization to establish an option in Psychology in the A.A. degree and offer online delivery of the program  
[Item #1001-LI0120](#) | [Request Form](#)

#### **Montana Technological University:**

- Request for authorization to change the name of the B.S. in Network Technology to a B.S. in Cybersecurity and Network Administration  
[Item # 1502-LI0120](#) | [Request Form](#)

January 2020

ITEM XXX-1001-LI0120

**Request for authorization to consolidate the Ecosystem Science and Restoration B.S. and the Resource Conservation B.S. into the Environmental Science and Sustainability B.S.**

---

**THAT**

The University of Montana-Missoula is notifying the Montana Board of Regents of its intent to consolidate the Ecosystem Science and Restoration B.S. and the Resource Conservation B.S. into the Environmental Science and Sustainability B.S.

---

**EXPLANATION**

As the State of Montana's only College of Forestry, the department is uniquely positioned to deliver a coursework focused on the most important environmental and natural resource issues in the state. The courses in this curriculum and the research conducted by faculty build the capacity of the state to tackle key issues such as energy and natural resources, fire and rural communities, land and water management, and drought and agriculture. Environmental science and sustainability is an area of growth across the country, and the demand for students with the training to connect environmental science with sustainability is growing.

---

**ATTACHMENTS**

Academic Proposal Request Form  
Curriculum Proposal Form

**Montana Board of Regents**  
**ACADEMIC PROPOSAL REQUEST FORM**

ITEM XXX-1001-LI0120 Submission Month or Meeting: January 2020

Institution: University of Montana-Missoula CIP Code: 03.0104

Program/Center/Institute Title: Consolidation of Ecosystem Science and Restoration B.S. and Resource Conservation B.S.

Includes (please specify below): Online Offering \_\_\_\_\_ Options Climate Science and Environmental Change, Ecosystem Science and Restoration, Environmental Policy and Planning, Resource Conservation, Sustainable Livelihoods and Communities, Water Resources

Please mark the appropriate type of request and submit with an Item Template and any additional materials, including those listed in parentheses following the type of request. For more information pertaining to the types of requests listed below, how to complete an item request, or additional forms please visit <http://mus.edu/che/arsa/academicproposals.asp>.

x **A. Level I:**

**Campus Approvals**

- \_\_\_\_\_ **1a. Placing a postsecondary educational program into moratorium** (Program Termination and Moratorium Form)
- \_\_\_\_\_ **1b. Withdrawing a postsecondary educational program from moratorium**
- \_\_\_\_\_ **2. Establishing, re-titling, terminating or revising a campus certificate of 29 credits or less**
- \_\_\_\_\_ **3. Establishing a B.A.S./A.A./A.S. area of study**
- \_\_\_\_\_ **4. Offering an existing postsecondary educational program via distance or online delivery**

**OCHE Approvals**

- \_\_\_\_\_ **5. Re-titling an existing postsecondary educational program**
- \_\_\_\_\_ **6. Terminating an existing postsecondary educational program** (Program Termination and Moratorium Form)
- x \_\_\_\_\_ **7. Consolidating existing postsecondary educational programs** (Curriculum Proposal Form)
- \_\_\_\_\_ **8. Establishing a new minor where there is a major or an option in a major** (Curriculum Proposal Form)
- \_\_\_\_\_ **9. Revising a postsecondary educational program** (Curriculum Proposal Form)
- \_\_\_\_\_ **10. Establishing a temporary C.A.S. or A.A.S. degree program** *Approval limited to 2 years*

**Montana Board of Regents**  
**ACADEMIC PROPOSAL REQUEST FORM**

**B. Level II:**

1. **Establishing a new postsecondary educational program** (Curriculum Proposal and Completed Intent to Plan Form)
2. **Permanent authorization for a temporary C.A.S. or A.A.S degree program** (Curriculum Proposal and Completed Intent to Plan Form)
3. **Exceeding the 120 credit maximum for baccalaureate degrees** *Exception to policy 301.11*
4. **Forming, eliminating or consolidating an academic, administrative, or research unit** (Curriculum or Center/Institute Proposal and Completed Intent to Plan Form, except when eliminating or consolidating)
5. **Re-titling an academic, administrative, or research unit**

**Proposal Summary [360 words maximum]**

**What**

The University of Montana-Missoula is notifying the Montana Board of Regents of its intent to consolidate the Ecosystem Science and Restoration B.S. and the Resource Conservation B.S. into the Environmental Science and Sustainability B.S.

**Why**

As the State of Montana's only College of Forestry, the department is uniquely positioned to deliver a coursework focused on the most important environmental and natural resource issues in the state. The courses in this curriculum and the research conducted by faculty build the capacity of the state to tackle key issues such as energy and natural resources, fire and rural communities, land and water management, and drought and agriculture. Environmental science and sustainability is an area of growth across the country, and the demand for students with the training to connect environmental science with sustainability is growing.

**Resources**

There are no additional resources required.

**Relationship to similar MUS programs**

While other institutions offer degrees in Environmental Science, there is a need for a degree program that explicitly links environmental science and sustainability, building specifically on the strengths of the Franke College of Forestry and Conservation (FCFC). Existing programs fill important niches in the state's higher education system, but they do not draw on the extensive expertise of FCFC in connecting environmental science specifically to environmental sustainability and natural resource challenges. The FCFC trains students to apply science to real world problems, for the benefit of communities, economies, and ecosystems.

**Montana Board of Regents**  
**ACADEMIC PROPOSAL REQUEST FORM**



**Montana Board of Regents**  
**CURRICULUM PROPOSAL FORM**

- 1. Overview of the request and resulting changes.** Provide a one-paragraph description of the proposed program. Will this program be related or tied to other programs on campus? Describe any changes to existing program(s) that this program will replace or modify. *[100 words]*

The University of Montana proposes to consolidate the Ecosystem Science and Restoration B.S. and the Resource Conservation B.S. into an Environmental Science and Sustainability (ESS) B.S. This program will be housed in the Franke College of Forestry and Conservation (FCFC), where the two existing degrees are currently housed.

- 2. Relation to institutional strategic goals.** Describe the nature and purpose of the new program in the context of the institution’s mission and core themes. *[200 words]*

The B.S. in Environmental Science and Sustainability contributes to the MUS goal of workforce and economic development by training students for a variety of careers and providing a high-quality workforce to catalyze a range of economic opportunities in the private and public sector. The degree strengthens UM’s Environment and Sustainability Community of Excellence by filling a curricular gap to better serve current students and recruit additional students to UM. The goal of the degree is to train students to effectively tackle environmental challenges in Montana and beyond in ways that sustain human communities and economies, and the resources and ecosystems on which they depend.

In addition, the degree is highly integrative and interdisciplinary, incorporating coursework from the physical, biological, and social sciences from four departments in the Franke College of Forestry and Conservation. Students will receive foundational training in multiple science disciplines and apply scientific knowledge to contemporary environmental issues in the region and across the globe.

- 3. Process leading to submission.** Briefly detail the planning, development, and approval process of the program at the institution. *[100 words]*

Franke College of Forestry and Conservation (FCFC) faculty began discussing an Environmental Science and Sustainability degree in fall 2017. In spring 2018, the UM University Planning Committee recommended that the B.S. in Ecosystem Science and Restoration and the B.S. in Resource Conservation be consolidated into a B.S. in Environmental Science and Sustainability. An FCFC faculty working group explored the idea and submitted the proposal to the MUS Intent to Plan process in December 2018. In October 2019, Environmental Science and Sustainability faculty consulted various programs across campus regarding synergies and efficiencies between programs. A number of changes were made based on those conversations.

- 4. Program description.** Please include a complete listing of the proposed new curriculum in Appendix A of this document.

- a. List the program requirements using the following table. (Varies by option.)

	Credits
Credits in required courses offered by the department offering the program	34-49
Credits in required courses offered by other departments	13-38

**Montana Board of Regents**  
**CURRICULUM PROPOSAL FORM**

Credits in institutional general education curriculum	15-18
Credits of free electives	30-43
Total credits required to complete the program	59-82

- b. List the program learning outcomes for the proposed program. Use learner-centered statements that indicate what students will know, be able to do, and/or value or appreciate as a result of completing the program.

Understand and apply core concepts from ecological, physical, and social sciences to address contemporary environmental, conservation, restoration, and sustainability challenges.

Develop and apply written and oral communication skills to address contemporary environmental, conservation, restoration, and sustainability challenges.

Develop and apply quantitative and qualitative analysis skills to contemporary challenges in environment, conservation, restoration, and sustainability.

Develop and apply problem-solving and critical thinking skills to contemporary challenges in environment, conservation, restoration, and sustainability.

Understand and assess complex ecological and social systems, including the connections between them, and how to apply systems thinking to contemporary challenges in environment, conservation, restoration, and sustainability.

Effectively apply core concepts from coursework to real-world problems in the field and profession.

Develop the knowledge, skills, and experience to compete for and succeed in a range of careers related to environmental science and sustainability.

Develop specialized, in-depth knowledge in subfields that are critical to today's environmental science and sustainability challenges.

- 5. Need for the program.** To what specific student, regional, and statewide needs is the institution responding to with the proposed program? How will the proposed program meet those needs? Consider workforce, student, economic, societal, and transfer needs in your response as appropriate. *[250 words]*

Montana's Constitution includes "the right to a clean and healthful environment" and the state's leading industries, from agriculture to tourism, depend on sustainable use of natural resources. Environmental science supports evidence-based practices that ensure that we manage and utilize resources in ways that sustain our communities, economies, resources, and ecosystems. As the State of Montana's only College of Forestry, we are uniquely positioned to deliver a coursework focused on the most important environmental and natural resource issues in the state. The courses in this curriculum and the research conducted by our faculty build the capacity of the state to tackle key issues such as energy and natural resources, fire and rural communities, land and water management, and drought and agriculture.

Environmental science and sustainability are growing fields with an increasing number of programs at the university-level and growing number of courses at the high school-level. In addition, the demand for students

**Montana Board of Regents**  
**CURRICULUM PROPOSAL FORM**

with the training to connect science to sustainability challenges is growing. The program will provide students with the skills to connect scientific evidence to problem-solving for the betterment of communities in Montana and beyond. Further, the six options, in ecosystem science and restoration, water resources, sustainable livelihoods, environmental policy and planning, resource conservation, and climate and environmental change, will help students develop specialized knowledge to make them more marketable. The degree will effectively prepare students to work with businesses, communities, private landowners, tribes, and local, state, and federal agencies to ensure sustainable resources use that benefits Montana’s economy and environment.

**6. Similar programs.** Use the table below to identify and describe the relationship between any similar programs within the Montana University System.

Institution Name	Degree	Program Title
MSU-Bozeman	B.S.	Environmental Sciences
UM-Western	B.S.	Environmental Science
UM-Western	B.S.	Environmental Sustainability

- a. If the proposed program substantially duplicates another program offered in the Montana University System, provide a rationale as to why any resulting duplication is a net benefit to the state and its citizens. *[200 words]*

While other institutions offer degrees in Environmental Science, there is a need for a degree program that explicitly links environmental science and sustainability, building specifically on the strengths of the Franke College of Forestry and Conservation (FCFC). Existing programs fill important niches in the state’s higher education system, but they do not draw on the extensive expertise of FCFC in connecting environmental science specifically to environmental sustainability and natural resource challenges. The FCFC trains students to apply science to real world problems, for the benefit of communities, economies, and ecosystems. Further, the six proposed options represent areas of specialization that improve student marketability for employment after graduation, train students to effectively manage resources and ecosystems, and build on existing FCFC faculty expertise and coursework. As a result, the ESS degree will effectively prepare students to work with businesses, communities, private landowners, and local, state, and federal agencies to ensure sustainable resources use that benefits Montana’s economy and environment. We also anticipate growing overall enrollment and increasing revenue to the University of Montana.

- b. Describe any efforts that were made to collaborate with similar programs at other institutions. If no efforts were made, please explain why. *[200 words]*

During spring and summer 2018, we discussed the proposed program with faculty and administrators at UM-Western and MSU-Bozeman who were in the process of proposing the degrees listed in the table above. We all agreed on the need for multiple programs in the area of environmental science and sustainability, and discussed the possibility of collaborating in the future. While there are no specific plans to collaborate, we will continue the dialogue to see if opportunities emerge. UM currently offers all of the courses necessary for the proposed B.S. in Environmental Science and Sustainability, so this proposal does not rely on courses or expertise at other institutions.

**Montana Board of Regents**  
**CURRICULUM PROPOSAL FORM**

**7. Implementation of the program.** When will the program be first offered? If implementation will occur in phases, please describe the phased implementation plans. *[100 words]*

The B.S. in Environmental Science and Sustainability will be implemented in fall 2020. The existing degrees, the B.S. in Ecosystem Science and Restoration and the B.S. in Resource Conservation, will be phased out over the next four years to enable current students in these degrees to graduate.

- a. Complete the following table indicating the projected enrollments in and graduates from the proposed program.

Fall Headcount Enrollment					Graduates				
AY20-21	AY21-22	AY22-23	AY23-24	AY24-25	AY20-21	AY21-22	AY22-23	AY23-24	AY24-25
20	60	115	170	185	0	5	10	50	60

- b. Describe the methodology and sources for determining the enrollment and graduation projections above. *[200 words]*

The figures above were computed based on current enrollments and graduation numbers from the two degrees being merged. Over the next five years, the enrollment in the two existing degrees will decline, as current students in these programs graduate. During the same period of time, enrollment in the B.S. in Environmental Science and Sustainability will grow, as freshmen and transfer students matriculate into that program. By fall 2023, we expect the enrollment in the B.S. in Environmental Science and Sustainability to be equal to or greater than the current enrollment of the two degrees being merged.

- c. What is the initial capacity for the program?

We estimate the initial capacity of the program at 200, somewhat larger than the current enrollment of the two degrees being merged (current combined enrollment of existing degrees is 170).

**8. Program assessment.** How will success of the program be determined? What action would result if this definition of success is not met? *[150 words]*

Assessment will be conducted on an on-going basis utilizing best practices for measuring individual student and program-wide outcomes. Program elements will be adapted on an on-going basis based on the results of these assessments to ensure learning outcomes and program goals are being achieved.

- a. Describe the assessment process that will be used to evaluate how well students are achieving the intended learning outcomes of the program. When will assessment activities occur and at what frequency? *[150 words]*

Degree-specific learning outcomes will be mapped to specific courses. Those courses will include assessment measures in course assignments, the results of which will be integrated into program-wide assessments.

Option-specific learning outcomes will be developed by faculty during AY 19-20 and mapped to specific courses. Those courses will include assessment measures in course assignments, the results of which will be integrated into program-wide assessments.

**Montana Board of Regents**  
**CURRICULUM PROPOSAL FORM**

Exit surveys will be conducted with graduating seniors to learn how program students assess their learning in specific areas, their overall student experience, and their perceived marketability.

Alumni surveys will be conducted every 3-5 years to learn where alumni are currently employed, how well the program prepared them for the workforce, and what changes should be made to ensure that future students are competitive for current and emerging job market.

- b. What direct and indirect measures will be used to assess student learning? *[100 words]*

Direct measures will include papers and tests conducted in program courses that are tiered to specific learning outcomes. Indirect measures will include exit surveys and alumni surveys.

- c. How will you ensure that the assessment findings will be used to ensure the quality of the program? *[100 words]*

Assessment findings will be reviewed by faculty on an annual basis and program elements will be continually adapted based on assessment. Environmental Science and Sustainability is a dynamic field and it is particularly important that courses remain relevant in the context of changing workforce needs and evolving science.

- d. Where appropriate, describe applicable specialized accreditation and explain why you do or do not plan to seek accreditation. *[100 words]*

N/A

**9. Physical resources.**

- a. Describe the existing facilities, equipment, space, laboratory instruments, computer(s), or other physical equipment available to support the successful implementation of the program. What will be the impact on existing programs of increased use of physical resources by the proposed program? How will the increased use be accommodated? *[200 words]*

The Franke College of Forestry and Conservation (FCFC) has four computer labs with 79 computers. FCFC also has two large properties, Lubrecht Experimental Forest and Bandy Ranch, totaling 28,000 and 3,000 acres respectively. FCFC relies on university-level classrooms and teaching labs. Undergraduates conducting research would have access to faculty research labs. FCFC has an annual budget of approximately \$17,000/year for instructional equipment which supports purchases for data collection in the physical, biological, and social sciences. Student fees fund field learning so that we can make extensive use of Montana's outdoor classroom and ensure that students interact directly with managers, landowners, tribal members, and other practitioners in the field.

- b. List needed facilities, equipment, space, laboratory instruments, etc., that must be obtained to support the proposed program. (Enter the costs of those physical resources into the budget sheet.) How will the need for these additional resources be met? *[150 words]*

N/A

**10. Personnel resources.**

**Montana Board of Regents**  
**CURRICULUM PROPOSAL FORM**

- a. Describe the existing instructional, support, and administrative resources available to support the successful implementation of the program. What will be the impact on existing programs of increased use of existing personnel resources by the proposed program? How will quality and productivity of existing programs be maintained? *[200 words]*

Instructional resources: Courses will be taught by the Environmental Science and Sustainability faculty, which includes faculty from the two degrees being combined. In total, this amounts to 8.0 FTE of general fund faculty. These faculty are spread across three departments in FCFC and provide expertise in the multiple disciplines required for this degree. Five faculty of these faculty are shared across two degree programs.

Support resources: The B.S. in Environmental Science and Sustainability will be supported by FCFC staff, including the professional advisors in the FCFC Student Services Offices. These staff currently serve the 170 students in the two degrees that are being consolidated.

Administrative resources: The ESS degree will be administered by faculty and a Program Director, chosen from the existing faculty.

- b. Identify new personnel that must be hired to support the proposed program. (Enter the costs of those personnel resources into the budget sheet.) What are the anticipated sources or plans to secure the needed qualified faculty and staff? *[150 words]*

N/A

**11. Other resources.**

- a. Are the available library and information resources adequate for the proposed program? If not, how will adequate resources be obtained? *[100 words]*

Current resources are adequate.

- b. Do existing student services have the capacity to accommodate the proposed program? What are the implications of the new program on services for the rest of the student body? *[150 words]*

Current resources are adequate.

**12. Revenues and expenditures.** Describe the implications of the new program on the financial situation of the institution. *[100 words]*

Environmental science and sustainability is a growth area. We expect the new degree to eventually enroll more students than the two existing degrees combined. Further, we expect the B.S. in Environmental Science and Sustainability to attract a large number of out-of-state students. The two existing degrees have 33% out-of-state students and 12% WUE students (as compared with UM as a whole, which has 16% out-of-state students and 10% WUE students). Thus, this proposal is revenue generating for the University of Montana and has the potential to contribute in substantial ways to the UM budget.

**Montana Board of Regents**  
**CURRICULUM PROPOSAL FORM**

- a. Please complete the following table of budget projections using the corresponding information from the fiscal analysis form for the first three years of operation of the new program.

This is a proposal to consolidate two existing degrees and therefore has not financial implications in the first three years. We are not requesting any new resources at this time.

- b. Describe any expenses anticipated with the implementation of the new program. How will these expenses be met? *[200 words]*

College of Forestry marketing materials will need to be updated to reflect this change, including college-wide posters/DEN slides/postcards and program-specific posters/DEN slides/postcards. There are already plans to update the college-wide materials due to Geography moving to FCFC. Program-specific materials will be updated as funds become available in the college budget.

- i. If funding is to come from the reallocation of existing state appropriated funds, please indicate the sources of the reallocation. What impact will the reallocation of funds in support of the program have on other programs? *[150 words]*

N/A

- ii. If an increase in base funding is required to fund the program, indicate the amount of additional base funding and the fiscal year when the institution plans to include the base funding in the department's budget.

N/A

- iii. If the funding is to come from one-time sources such as a donation, indicate the sources of other funding. What are the institution's plans for sustaining the program when that funding ends? *[150 words]*

N/A

- iv. Describe the federal grant, other grant(s), special fee arrangements, or contract(s) that will be valid to fund the program. What does the institution propose to do with the program upon termination of those funds? *[150 words]*

N/A

- 13. Student fees.** If the proposed program intends to impose new course, class, lab, or program fees, please list the type and amount of the fee.

N/A


- 14.** Complete the fiscal analysis form.

N/A (Consolidation)

Montana Board of Regents  
CURRICULUM PROPOSAL FORM

Signature/Date

College or School Dean:

  
Chief Academic Officer:

Chief Executive Officer:

Flagship Provost\*:



Flagship President\*:



\*Not applicable to the Community Colleges.



Montana Board of Regents  
CURRICULUM PROPOSAL FORM

**Appendix A – Proposed New Curriculum**  
**B.S. Environmental Science and Sustainability**

**Core Competencies**

*Intro Course (in discussion with EVST re: synergies/possibility of using ENSC 105 here)*

NRSM 110 First Year Seminar in Environmental Science and Sustainability (1.0 cr) (NEW)

Oral communications: COMX 111A OR THTR 120A

Statistics: FORS 201 OR STAT 216 OR WILD 240

CHMY 121N Chemistry

NRSM 210N Soils, Water, Climate

Social Science: PTRM 300 OR NRSM 379 OR NRSM 424 OR NRSM 426 OR NRSM 475

Policy: NRSM 370 OR WILD 410 OR NRSM 422 OR NRSM 427

Ecology: FORS 330 OR FORS 333 OR BIOE 370 OR BIOE 447 OR NRSM 462

Ethics: NRSM 349E or NRSM 389E Ethics and Sustainability (TITLE CHANGE)

Experiential learning (3.0 credits total): NRSM 110, NRSM 115, FORS 130, PTRM 150, NRSM 273, NRSM 298, NRSM 398, NRSM 498, NRSM 499, BIOE 342, PTRM 345, NRSM 345, WILD 374, GPHY 385, BIOE 400, BIOE 416, PTRM 418, ENST 427, ENST 437, BIOE 439, BIOE 440, FORS 440, BIOE 451, BIOE 453, BIOE 458, PTRM 484, NRSM 495)

Biology course is required, but specific to option

Math course is required, but specific to option

*Three of the following* upper division writing courses: PTRM 300, FORS 330, FORS 341, FORS 347, FORS 349, NRSM 379, NASX 403, WILD 410, NRSM 426, BIOE 428, FORS 440, NRSM 349E, NRSM 462, NRSM 465, NRSM 475, NRSM 389E, NRSM 495, or NRSM 499 (or, one course that has a W, such as PTRM 451W, PTRM 482W, GPHY 335W, or GPHY 433)

**Notes:**

- *Intro course AND NRSM 110 will not be required if students declare the major with 60+ credits.*
- *Freshman should take BIOB 160 to ensure they are able to move into any option.*

**Options**

- Climate Science and Environmental Change
- Ecosystem Science and Restoration
- Environmental Policy and Planning
- Resource Conservation
- Sustainable Livelihoods and Communities
- Water Resources

*In the options below, courses that double dip for option and core are italicized.*

**Climate Science and Environmental Change**

The Climate Science and Environmental Change option provides students with an understanding of climate science, interactions between climate and ecosystems, and the intersections of climate, society, and policy.

**Required Courses**

**Foundations**

CCS 103X Climate Change Science and Society

Math, *one of the following*: M 122 (Trigonometry), M 151 (Precalculus), or M 162 (App Calculus)

**Montana Board of Regents**  
**CURRICULUM PROPOSAL FORM**

Biology, *one of the following*: BIOB 160N (Living Sys), BIOB 170N (Biological Diversity), BIOC 105N (Botany), or BIOE 172N (Ecology)  
PHSX 205N College Physics I  
PHSX 206N College Physics I Lab

**Climate Science**

NRSM 281 Science of Climate Change  
GEO 346 Earth's Changing Climate OR EARTH 303N Weather and Climate  
NRSM 408 Global Cycles and Climate  
NRSM 418 Ecosystem Climatology

**Environmental Change**

NRSM 385 Watershed Hydrology  
FORS 230 Fire Management and Environmental Change  
*FORS 333 Fire Ecology*

**Climate and Society A**

*NRSM 349 Climate Ethics and Policy*  
*NRSM 426 Climate and Society*

**Climate and Society B (at least one course)**

PHIL 112E Intro to Ethics and the Environment  
COMX 349 Communication, Consumption, & Climate  
NPAD 191 Public Policy and the Climate  
ECNS 445 International Environmental Economics & Climate Change  
ENST 427 Society, Economy and Environment of the Mekong Delta

**Climate Solutions A (at least one course)**

*CCS 398 Climate Change Internship*  
CCS 395 Climate Change Practicum  
ENST 476 Environmental Citizenship

**Climate Solutions B (at least one course)**

BGEN 160S Issues in Sustainability  
ENST 391 Energy and Climate  
GPHY Sustainable Cities  
BMGT 410 Sustainable Business Practices  
BGEN Sustainability Reporting  
ENST 437 Climate Change in the Mekong Delta  
NRSM 321/ENST 311 Cycle the Rockies: Energy and Climate Change in Montana

*Students in this option would automatically complete the Climate Change Studies minor.*

**Ecosystem Science and Restoration**

The Ecosystem Science and Restoration option spans the range of ecology from microbial to global scales and includes basic and applied science. Students will focus on learning about how ecosystems work, solving pressing environmental

**Montana Board of Regents**  
**CURRICULUM PROPOSAL FORM**

problems, and/or helping to restore degraded ecosystems. In the ESR option, students can focus on either aquatic or terrestrial ecosystems and tailor their capstone experience to best fit their interests and career path.

Biology - BIOB 160N and BIOB 161N

**Required lower division classes:**

CHMY 123N Intro. to Organic & Biochemistry (lab optional)  
GEO 101N (& 102NL) General Geology & Lab OR GEO 103N (& 104NL) OR BIOO 105N Botany  
BIOB 260 Cell & Molecular Biology  
NRSM 265 Elements of Ecol. Restoration  
BIOB 272 Genetics & Evolution  
M 162 Applied Calculus

**Required upper division classes:**

*BIOE 370 General Ecology (lab optional)*  
NRSM 385 Watershed Hydrology  
NRSM 344 Ecosystem Science and Restoration Capstone  
BIOE 428 Freshwater Ecology OR BIOO 335 Rocky MT Flora  
*NRSM 495 Practicum OR NRSM 498 Internship OR NRSM 499 Senior Thesis*  
NRSM 465 Restoration Ecology OR BIOE 447 Ecosystem Ecology  
NRSM 494 Seminar in Ecosystem Science and Restoration

Can't count a class as an elective that is taken for the above required classes (no double-dipping courses to count as ESR core and natural science electives)

**ESR Nat Science Electives - Pick 3 courses**

BIOE 342 Field Ecology  
BIOE 416 Alpine Ecology  
BIOE 447 Terr. Ecosystem Ecology  
BIOE 448 Terr. Plant Ecology  
BIOE 451 Landscape Ecology  
BIOE 458 Ecology of Forests and Grasslands  
BIOO 320 General Botany  
BIOO 433 Plant Physiology  
FORS 202 Forest Mensuration  
FORS 330 Forest Ecology  
FORS 331 Wildland Fuels Mgmt  
FORS 333 Fire Ecology  
FORS 347 Silviculture  
FORS 462 Range Ecology  
FORS 250 Intro to GIS  
NRSM 360 Rangeland Mgmt  
NRSM 408 Global Cycles and Climate  
NRSM 415 Environ. Soil Science  
NRSM 418 Ecosystem Climatology  
GEO 346 Earth's Changing Climate  
NRSM 462 Range Ecology  
NRSM 465 Restoration Ecology OR BIOE 447 Ecosystem Ecology  
WILD 470 Conservation of Wildlife Populations

**Montana Board of Regents**  
**CURRICULUM PROPOSAL FORM**

BIOO 340 Biology & Mgmt. of Fishes  
ERTH 303N Weather and Climate  
GPHY 317 Geomorphology  
GEO 420 Hydrogeology  
GEO 421 Hydrology  
GEO 460 Process Geomorphology  
NRSM 408 Global Cycles and Climate  
NRSM 418 Ecosystem Climatology  
WILD 485 Aquatic Macroinvertebrate Ecology

**Environmental Policy and Planning**

The Environmental Policy and Planning option focuses on policy and planning processes at multiple scales. Students are introduced to real-world environmental problems and the policy and planning approaches, strategies, and tools that can be used to deal with them. Coursework covers U.S. public lands, water, and wildlife policy; community, regional, and federal lands planning; conflict resolution and collaboration; markets and economic incentives; and political institutions and processes.

**Required Courses**

Math, *one of the following*: M 115 (Probability/Linear), M 121 (Algebra), M 122 (Trigonometry), M 151 (Precalculus), or M 162 (App Calculus)

Biology, *one of the following*: BIOB 160N (Living Sys), BIOB 170N (Biological Diversity), BIOO 105N (Botany), or BIOE 172N (Ecology)

PSCI 210S American Government  
FORS 250 GIS  
PSCI 361 Public Administration  
*NRSM 349E Climate Change Ethics & Policy*  
*NRSM 379 Collaboration in Natural Resource Decisions*  
*NRSM 422 Natural Resource Policy & Admin*  
GPHY 465 Planning Principles & Processes

**At Least Two Courses from This List**

GPHY 335 Water Policy  
ENST 382 Environmental Law  
WILD 410 Wildlife Policy  
NRSM 427 Advanced Water Policy

**At Least Two Courses from This List**

GPHY 466 Environmental Planning  
FORS 481 Forest Planning  
PTRM 485 Recreation Planning

**At Least One Course from This List**

FORS 320 Forest Economics  
GPHY 323 Economics of Rural Areas  
ECNS 433 Economics of the Environment

**Montana Board of Regents**  
**CURRICULUM PROPOSAL FORM**

**Sustainable Livelihoods & Communities**

The Sustainable Livelihoods and Communities option provides students with an understanding of key social and institutional processes involved in transitioning to sustainable economies from global to local levels. Courses address the intersections between environment and development, natural resource governance and collaboration, and pathways to sustainability.

**Required Courses**

Math, *one of the following*: M 115 (Probability/Linear), M 121 (Algebra), M 122 (Trigonometry), M 151 (Precalculus), or M 162 (App Calculus)

Biology, *one of the following*: BIOB 160N (Living Sys), BIOB 170N (Biological Diversity), BIOO 105N (Botany), or BIOE 172N (Ecology)

FORS 250 GIS

**At Least Five Courses from this List**

ENST 225 Sustainable Communities  
GPHY 323S Economic Geography of Rural Areas  
*NRSM 379 Collaboration in Natural Resource Decisions*  
NRSM 424 Community Forestry & Conservation  
GPHY 433 Community Resilience  
GPHY 421 Sustainable Cities  
NRSM 475 Environment & Development  
PTRM 451 Tourism and Sustainability

**At Least Four Courses from this List**

PTRM 210 Nature-Based Tourism  
SOCl 270 Intro Development Sociology  
FORS 320 Forest Economics  
BGMT 410 Sustainable Business Practices  
ECNS 433 Economics of the Environment  
SOCl 443 Sociology of Poverty  
SOCl 470 Environmental Sociology  
SOCl 471 Gender and Global Development  
GPHY 468 Community & Regional Analysis  
ENST 480 Food Justice and Sustainability

**Resource Conservation**

The Resource Conservation option provides students with the flexibility to design their own emphasis or to focus more generally on natural resource management and conservation. Students in this option complete the ESS core as well as the math, biology, and GIS courses outlined below, and then work with their faculty advisor to select additional coursework based on their interests and professional goals.

**Required Courses**

Math, *one of the following*: M 115 (Probability/Linear), M 121 (Algebra), M 122 (Trigonometry), M 151 (Precalculus), or M 162 (App Calculus)

**Montana Board of Regents**  
**CURRICULUM PROPOSAL FORM**

FORS 250 (GIS for Forest Management) or another math course listed above, but not already taken

Biology, *one of the following*: BIOB 160N (Living Sys), BIOB 170N (Biological Diversity), BIOO 105N (Botany), or BIOE 172N (Ecology)

Students must take at least 36 traditional letter-graded credits within the W.A. Franke College of Forestry and Conservation (FCFC) (this includes courses listed above in the core). All courses with the FORS, GPHY, NRSM, PTRM, and WILD prefixes will work (if they are taught by FCFC faculty). Transfer equivalents may be accepted for required courses at the discretion of the faculty but do not count as FCFC credits. Students in the Resource Conservation option should work closely with their faculty advisor to select courses that align with their interests and professional goals.

In addition to the above requirements, students are required to take at least 10 additional credits in their area of emphasis. Students can choose courses from the following prefixes: BIOO, BIOE, CHMY, ENSC, ENST, FORS, GEOS, M, NRSM, PHSX, and WILD. Transfer courses can count toward these 10 credits. Alternatively, students can take two semesters of a foreign language (or otherwise demonstrate foreign language proficiency).

**Water Resources**

The Water Resources option prepares students for careers and/or graduate study related to watershed hydrology, water policy, and other aspects of water resources governance and management. Coursework focuses on technical training in fundamental sciences such as physics, chemistry and biology; more specialized training in hydrology, hydrogeology, geomorphology, and soil science; and the social and political context of water use, allocation, conservation, and management, both with regard to water quality and water quantity issues. Students who complete this option will satisfy the education requirements for the Hydrology Series (1315) and Hydrologic Technician Series (1316) civil service qualifications.

**Required Courses**

Biology, *one of the following*: BIOB 160N (Living Sys), BIOB 170N (Biological Diversity), BIOO 105N (Botany), or BIOE 172N (Ecology)

GEO 101/102N Intro to Physical Geology & Lab  
OR GEO 103N/104H Environmental Geology and Lab

*NRSM 210N Soils, Water, Climate*

GPHY 335 Water Policy

NRSM 385 Watershed Hydrology

*NRSM 427 Advanced Water Policy*

PHSX 205N College Physics I

PHSX 206N College Physics I Lab

PHSX 207N College Physics II

PHSX 208N College Physics II Lab

M 171 Calculus I

M 172 Calculus II

**At least one course from this list (physical science)**

GEO 320 Global Water

GEO 460 Process Geomorphology

GEO 420 Hydrogeology

**Montana Board of Regents**  
**CURRICULUM PROPOSAL FORM**

GEO 421 Hydrology

**At least one course from this list (biological sciences)**

*BIOB 447 Ecosystem Ecology*  
BIOE 400 Aquatic Microbial Ecology  
BIOE 428 Freshwater Ecology  
WILD 485 Aquatic Invertebrate Ecology  
BIOE 439 Stream Ecology  
BIOE 453 Ecology of Small & Large Lakes  
GPHY 474 UAV for Freshwater Ecology

**At least one course from this list (misc)**

ERTH 303 Weather and Climate  
GPHY 317 Landforms and Geomorphic Processes  
FORS 341 Timber Harvesting and Roads  
NRSM 415 Environmental Soil Science  
FORS 434 Advanced Forest Roads

January 2020

ITEM XXX-1002-LI0120

**Request for authorization to establish an option in Psychology in the A.A. degree**

---

**THAT**

Missoula College is notifying the Montana Board of Regents of its intent to establish an option in Psychology in the associate of arts degree and offer online delivery of the program.

---

**EXPLANATION**

This is an effort to formalize the existing “Baccalaureate Pathway” MOU between Missoula College (MC) and the Department of Psychology at the University of Montana-Missoula. The existing pathway specifies courses for each semester during a student’s first two years of study to best-prepare them to matriculate to the Mountain campus and finish their B.A. degree in Psychology in two final years. It is necessary to formalize this process in order to accurately measure where students go when they transition from their two-year degree program into a four-year degree program. Additionally, an option in Psychology streamlines advising and increases students’ confidence in the academic process. Lastly, two-year colleges across the nation are providing a Psychology option with the A.A. degree to enable students interested in Psychology to pursue related entry-level positions, such as psychiatric technician/aide, mental health associate, or research assistant.

---

**ATTACHMENTS**

Academic Proposal Request Form



Montana Board of Regents  
ACADEMIC PROPOSAL REQUEST FORM

ITEM XXX-1002-LI0120 Submission Month or Meeting: January 2020

Institution: Missoula College-UM CIP Code: 42.0101

Program/Center/Institute Title: Establishing an option in Psychology in the A.A. degree

Includes (please specify below): Online Offering X Options \_\_\_\_\_

Please mark the appropriate type of request and submit with an Item Template and any additional materials, including those listed in parentheses following the type of request. For more information pertaining to the types of requests listed below, how to complete an item request, or additional forms please visit <http://mus.edu/che/arsa/academicproposals.asp>.

X **A. Level I:**

**Campus Approvals**

- \_\_\_\_\_ 1a. Placing a postsecondary educational program into moratorium (Program Termination and Moratorium Form)
- \_\_\_\_\_ 1b. Withdrawing a postsecondary educational program from moratorium
- \_\_\_\_\_ 2. Establishing, re-titling, terminating or revising a campus certificate of 29 credits or less
- X \_\_\_\_\_ 3. Establishing a B.A.S./A.A./A.S. area of study
- \_\_\_\_\_ 4. Offering an existing postsecondary educational program via distance or online delivery

**OCHE Approvals**

- \_\_\_\_\_ 5. Re-titling an existing postsecondary educational program
- \_\_\_\_\_ 6. Terminating an existing postsecondary educational program (Program Termination and Moratorium Form)
- \_\_\_\_\_ 7. Consolidating existing postsecondary educational programs (Curriculum Proposal Form)
- \_\_\_\_\_ 8. Establishing a new minor where there is a major or an option in a major (Curriculum Proposal Form)
- \_\_\_\_\_ 9. Revising a postsecondary educational program (Curriculum Proposal Form)
- \_\_\_\_\_ 10. Establishing a temporary C.A.S. or A.A.S. degree program *Approval limited to 2 years*

**Montana Board of Regents**  
**ACADEMIC PROPOSAL REQUEST FORM**

X **B. Level II:**

- \_\_\_\_\_ **1. Establishing a new postsecondary educational program** (Curriculum Proposal and Completed Intent to Plan Form)
- \_\_\_\_\_ **2. Permanent authorization for a temporary C.A.S. or A.A.S degree program** (Curriculum Proposal and Completed Intent to Plan Form)
- \_\_\_\_\_ **3. Exceeding the 120 credit maximum for baccalaureate degrees** *Exception to policy 301.11*
- \_\_\_\_\_ **4. Forming, eliminating or consolidating an academic, administrative, or research unit** (Curriculum or Center/Institute Proposal and Completed Intent to Plan Form, except when eliminating or consolidating)
- \_\_\_\_\_ **5. Re-titling an academic, administrative, or research unit**

**Proposal Summary [360 words maximum]**

**What**

Missoula College requests authorization from the Montana Board of Regents to establish an option in Psychology in the Associate of Arts degree and offer online delivery of the program.

**Why**

This is an effort to formalize the existing “Baccalaureate Pathway” MOU between Missoula College (MC) and the Department of Psychology at the University of Montana-Missoula. The existing pathway specifies courses for each semester during a student’s first two years of study to best-prepare them to matriculate to the Mountain campus and finish their B.A. degree in Psychology in two final years. It is necessary to formalize this process in order to accurately measure where students go when they transition from their two-year degree program into a four-year degree program. Additionally, an option in Psychology streamlines advising and increases students’ confidence in the academic process. Lastly, two-year colleges across the nation are providing a Psychology option with the A.A. degree to enable students interested in Psychology to pursue related entry-level positions, such as psychiatric technician/aide, mental health associate, or research assistant.

**Resources**

There are no additional resources needed at this time.

**Relationship to similar MUS programs**

MC currently offers two options for students seeking an A.A. degree: Communication Studies and Professional Communication. An option in Psychology is consistent with these efforts. An option in Psychology for A.A. students does not exist at other MUS institutions.

January 2020

ITEM 1502-LI0120

**Request authorization to change the name of the B.S. in Network Technology to a B.S. in Cybersecurity and Network Administration**

---

**THAT**

Montana Technological University requests authorization from the Montana Board of Regents to rename the Bachelor of Science Program from Network Technology to Cybersecurity and Network Administration.

---

**EXPLANATION**

The B.S. in Network Technology at Montana Technological University has undergone curriculum changes in the past 3 years to adopt more courses in the computer /network /information / cybersecurity field. According to the Department of Labor's most recent employment projections, demand for Information Security Analysts is expected to be very high. This field is in the top 15 of the fastest growing detailed occupations requiring post-secondary education.

---

**ATTACHMENTS**

Proposal Request Form

**Montana Board of Regents**  
**ACADEMIC PROPOSAL REQUEST FORM**

ITEM 186-1502-LI0120 Submission Month or Meeting: January 2020

Institution: Montana Technological University CIP Code: 11.1003

Program/Center/Institute Title: Network Technology

Includes (please specify below): Online Offering \_\_\_\_\_ Options \_\_\_\_\_

Please mark the appropriate type of request and submit with an Item Template and any additional materials, including those listed in parentheses following the type of request. For more information pertaining to the types of requests listed below, how to complete an item request, or additional forms please visit <http://mus.edu/che/arsa/academicproposals.asp>.

     **A. Level I:**

**Campus Approvals**

- 1a. **Placing a postsecondary educational program into moratorium** (Program Termination and Moratorium Form)
- 1b. **Withdrawing a postsecondary educational program from moratorium**
- 2. **Establishing, re-titling, terminating or revising a campus certificate of 29 credits or less**
- 3. **Establishing a B.A.S./A.A./A.S. area of study**
- 4. **Offering an existing postsecondary educational program via distance or online delivery**

**OCHE Approvals**

- x** 5. **Re-titling an existing postsecondary educational program**
- 6. **Terminating an existing postsecondary educational program** (Program Termination and Moratorium Form)
- 7. **Consolidating existing postsecondary educational programs** (Curriculum Proposal Form)
- 8. **Establishing a new minor where there is a major or an option in a major** (Curriculum Proposal Form)
- 9. **Revising a postsecondary educational program** (Curriculum Proposal Form)
- 10. **Establishing a temporary C.A.S. or A.A.S. degree program** *Approval limited to 2 years*

**Montana Board of Regents**  
**ACADEMIC PROPOSAL REQUEST FORM**

**B. Level II:**

- \_\_\_\_\_ **1. Establishing a new postsecondary educational program** (Curriculum Proposal and Completed Intent to Plan Form)
- \_\_\_\_\_ **2. Permanent authorization for a temporary C.A.S. or A.A.S degree program** (Curriculum Proposal and Completed Intent to Plan Form)
- \_\_\_\_\_ **3. Exceeding the 120 credit maximum for baccalaureate degrees** *Exception to policy 301.11*
- \_\_\_\_\_ **4. Forming, eliminating or consolidating an academic, administrative, or research unit** (Curriculum or Center/Institute Proposal and Completed Intent to Plan Form, except when eliminating or consolidating)
- \_\_\_\_\_ **5. Re-titling an academic, administrative, or research unit**

**Proposal Summary** [360 words maximum]

**What:** Montana Technological University would like to rename the Bachelor of Science Program from Network Technology to Cybersecurity and Network Administration.

**Why:** The B.S. in Network Technology at Montana Technological University has undergone curriculum changes in the past 3 years to adopt more courses in the computer /network /information / cybersecurity field. According to the Department of Labor's most recent employment projections, demand for Information Security Analysts is expected to be very high. This field is in the top 15 of the fastest growing detailed occupations requiring post-secondary education.

**Resources:** No new resources are needed.

**Relationship to similar MUS programs :** N/A