

Faculty Senate Agenda
5/3/2018
2 p.m.– 4:00 p.m.
Highlands College room 123

I. Welcome and Minutes

Action Items

II. Emeritus Recommendation

- a. Douglas Coe

III. CRC Recommendations

- a. Minutes and (SME) Petroleum Engineering Class
- b. (HC) Add courses in Math, Surveying, and Cybersecurity; modify courses in Construction; modify Web Development and Administration AAS; and add certificate in Land surveying
- c. (CLSPS) Changes to Business courses, Healthcare Informatics major, Business and Information Technology major, Computer Sciences major, and Biological Sciences minor. Additionally, add certificate in “Landman” and Bachelors of Nursing completion program (post licensure)

IV. Graduate Council Recommendation for Catalog Change

Informational Items

V. Committee updates:

- a. Program Prioritization Committee
- b. WIRE

Discussion Items

VI. Teaching Innovation Grants

VII. Senate meeting times for Fall 2018

VIII. Other Items

II.a.ITEM # XXX

Request for authorization to confer the title of Professor Emeritus of Chemistry on Dr. Douglas Coe – Montana Tech of the University of Montana

THAT

Upon the occasion of the retirement of Professor Douglas Coe from the faculty of Montana Tech, the faculty wishes to express its appreciation for his 37 years of dedication and valued service by requesting the rank of Professor Emeritus be conferred upon him by the Board of Regents of Higher Education.

EXPLANATION

Dr. Douglas (Doug) Coe grew up in Plains, Montana, where his parents published the local newspaper, *The Plainsman*. He graduated from Montana State University in 1969 with a B.S. degree in Chemistry. He graduated from Oregon State University in 1974 with a Ph.D. in physical chemistry, where he used infrared and Raman spectroscopy to study the conformations of small molecules trapped in argon matrices at 30 K. Subsequently he held positions as a Dreyfus Teacher-Scholar at Furman University; a postdoctoral appointment at the University of Idaho, working with Dr. Jean'ne Shreeve on the spectra of per-fluoro sulfur compounds; and visiting positions at Sonoma State College, the Illinois Institute of Technology, Rollins College, and the Colorado School of Mines.

In 1981 Dr. Coe accepted a position as an assistant professor of chemistry at the Montana College of Mineral Science and Technology, where he was promoted to associate professor in 1984 and full professor in 1992. Believing that administration would provide interesting challenges and an opportunity to do good (it provided both), he served as Department Head of Chemistry from 1991 to 1995, Dean of the College of Mathematics and Sciences and Department Head in Chemistry from 1996 to 1997, Acting Vice Chancellor for Academic Affairs and Research during 1997-1998, Dean of the College of Mathematics and Sciences and Department Head in Chemistry from 1998 to 2005, and finally Dean of the College of Letters, Sciences, and Professional Studies from 2005 to the present.

For 34 of his years at Montana Tech, Dr. Coe taught courses in primarily general chemistry and physical chemistry and its associated labs. Along the way he developed or co-developed and taught courses in polymer chemistry, chemical literature, and computational chemistry. His true love was and remains teaching and in recent years he cherished the opportunities he had to teach physical chemistry offering a respite from the challenges of administration. He has authored 13 publications and given numerous presentations. In 1990 he was the recipient of the Burlington Resources Foundation Faculty Achievement Award.

Dr. Coe was Co-Director of the Southwest Montana Science and Engineering Fair from 1988 to 1992 and served as a 1st Round International Science and Engineering Judge in 2004. In 2013 he was presented the Paul and Paulette Miller Award for Service to the Science Fair. From 2006 to 2016 Dr. Coe served on evaluation teams for six Northwest Commission on Colleges and Universities accreditation visits. He was Chair of the Strategic Planning Committee, which laid the groundwork for Montana Tech's current Strategic Plan and Chair of the Montana Tech Mission Committee, which proposed Montana Tech's current mission statement. He chaired the Montana Tech Chancellor's Search Advisory Committee, which recommended hiring Montana Tech's current Chancellor, and also chaired the search committee, which recommended the hiring of the current Director of the Bureau of Mines and Geology and State Geologist.

Dr. Coe served (with able help from others) as PI from 2007 to 2017 on three successful *Montana Minds, Scholarships for Science and Engineering Students* NSF-STEM grants. These grants which totaled \$1.6 million dollars provided \$6,000 to \$6,500 in annually renewable scholarships to 99 students and had a measureable impact on the enrollment in several of our science, mathematics, and computer programs.

Dr. Coe has for 42 years been an active member of the American Chemical Society (ACS), where he served at the national level on the Membership Affairs Committee (2001-2004) and regionally as the Chair of the Western Region Councilor's Caucus (1999). In 1989 he served as Chair of the Montana Section of the ACS and from 1997 to 2004 represented the Montana Section at the national level as Councilor. From 1990 to 1997 he served on the National General Chemistry Examination Committee and helped write the standardized national general chemistry exams taken by many Montana Tech students.

He currently volunteers at the Science Mine, where he is a Board member and was CEO for the past seven years. He is also a current member of the Project Green Board (2010-), the Butte Local Development Corporation (2013- and current Vice President), and the Restore Our Creek Coalition (2016-).

Based on his accomplishments in teaching, research and service, the Chemistry and Geochemistry Department of Montana Tech is pleased to nominate Professor Doug Coe as Professor Emeritus of Chemistry and Geochemistry at Montana Tech together with all the rights, privileges, and honors thereto appertaining.

IV. Graduate Council Recommendation for Catalog Change

Current Language in Catalogue

Courses taken at Montana Tech as an undergraduate student

1. Graduate courses (500 level) for which credit has been received prior to admission to the Graduate School do not necessarily apply to graduate programs. The decision on the applicability of courses to a graduate program rests with the student's Graduate Committee. A petition listing these courses and approved by the Department Head of the proposed graduate program must be filed with the Graduate School.
2. Courses listed in the 400 series may become part of a student's graduate degree program if the courses are approved by the student's Graduate committee and were not used to obtain the bachelor's degree. A petition listing these courses and approved by the Department Head must be filed with the Graduate School.
3. For students who have applied to the Montana Tech Graduate School, graduate level courses taken prior to completion of a bachelor's degree may be reserved and/or applied toward any graduate program requirements with approval of the Department Head and concurrence of the Graduate School. Such credits may not be used to satisfy the requirements for the bachelor's degree.

Proposed New Language for Catalogue

Courses taken at Montana Tech as an undergraduate student

- ~~1. Graduate courses (500 level) for which credit has been received prior to admission to the Graduate School do not necessarily apply to graduate programs. The decision on the applicability of courses to a graduate program rests with the student's Graduate Committee. A petition listing these courses and approved by the Department Head of the proposed graduate program must be filed with the Graduate School.~~
- ~~2. Courses listed in the 400 series may become part of a student's graduate degree program if the courses are approved by the student's Graduate committee and were not used to obtain the bachelor's degree. A petition listing these courses and approved by the Department Head must be filed with the Graduate School.~~
1. For students who have applied to the Montana Tech Graduate School, graduate level courses (400 and 500 level) taken prior to completion of a bachelor's degree may be reserved and/or applied toward any graduate program requirements with approval of the Department Head and concurrence of the Graduate School. ~~Such credits may not be used to satisfy the requirements for the bachelor's degree.~~ **These courses must meet the following criteria:**
 - A. Courses must have been taken at Montana Tech (no transfer credits).
 - B. Only credits in excess of 128 credits used to meet bachelor degree requirements may be applied to the graduate program requirements.
 - C. A grade of "B" or better must have been earned for each course.
 - D. Courses must be electives and not part of the core curriculum for the undergraduate degree.
 - E. Courses must have been taken in the past 4 years.
 - F. Partial course credit could be applied, similar to course substitution. Example: 2 credits of a 3 credit course could be applied, if in excess of 128 total credit hours.
2. Students interested in taking advantage of this opportunity are encouraged to pursue the **5-Year BS-MS option** and to take electives intended to apply to both degree programs at the 500 level wherever possible.

VI. Teaching Innovation Grants

The Montana Tech Faculty Senate shall establish an annual set of Teaching Innovation Grants to be provided to full-time faculty for the purpose of pedagogical improvement on campus. These grants will be established in partnership with the Associated Students of Montana Tech in the fall of 2018. Faculty Senate, in consultation with ASMT, will construct and disseminate a request for proposals annually in January. ASMT, in consultation with Faculty Senate, will review and award applications annually in March. Full-time faculty members who have participated in at least two Faculty Senate Teaching Circle activities are eligible to apply.

Curriculum Review Committee Meeting Minutes– 04/26/18

- I. Call the meeting to order / end: 902 - 1035
- II. Changes to Meeting Minutes from **Apr 5 2018** - passed
- III. Scheduled Meetings None
- IV. Member Attendees: **Sign in Please**
- V. Curriculum Revisions and Proposals

Reminder: SO for all course due to Registrar on 8/1/2018 SO's added to course syllabus before changes are submitted to the CRC - required for **all new** course where CRNs are requested or where CRNs/ used in conjunction with exiting courses that are newly taught at MT /Tech.

NOTES: Did NOT go to FS from Jan: Certificate in Criminal Justice; Certificate in Legal Studies; BGEN 2XXX; did not pass FS from Mar BGEN 491 and Land Certificate (on Apr Agenda?); Tabled April Change 400 level Mat from 410 to 410 OR M 426

Added to agenda Change 400 level Math requirement from M 410 to M 410 OR M 426

Program	Description	Dean's Approval	CRC Vote Y/N/A
1) Civil Engineering Technology	(need six classes for certificate, two are new classes) Only offered Post-degree Technical Certificate of Land Surveying ETCC 235 from 2 to 3 credits Construction Legal Doc and Specs New courses SRVY 255 Surveying calculations SRVY 265 Surveying Laws and Land Divisions	Yes	yes
Meeting Minutes: Civil should review Has student outcomes for two new course but provisional syllabi.			
2) PetEng	PET 512 Offshore drilling and completion operations (deleted form by accident) – creating 500 level along with 400 level course – signed by grad c	Yes	yes
Meeting Minutes: Course number as special topic			
3) Graduate School	Modify BS MS language for undergraduate course that can be applied to MS course	Yes	yes
Meeting Minutes: will not count credits over 6 years; 8-15 credits completed BS level can be used towards a MS; use elective classes in BS towards MS degree if not required, must apply to MS degree specifically			

Curriculum Review Committee Meeting Minutes– 04/26/18

Program	Description	Dean's Approval	CRC Vote Y/N/A
4) Nursing	Nursing post – licensure new program (48 credits)	Yes	Yes
Meeting Minutes: reduced clinical to be more competitive			

5) Metallurgy	Metallurgy updated	Yes	
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Meeting Minutes:

6) Business and Information Tech	BGEN 291 special topics – assignment of permanent course number BFIN 205 Personal Finance	Yes	Yes
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Meeting Minutes: Request for fall, is free elective, taught distance, has been taught before, chapter on managing student course debt

7) Health Programs	Replace M 116 or M 121 with M 140 across 3 programs Medical assistant, radiology tech, and surgical tech	Yes	yes
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Meeting Minutes:

8) Biology	Revised minor in Biology	Yes	Yes
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Meeting Minutes:
Highly flexible – must take 7 credits of upper division plus required 8, remaining are flexible

9) Network Technology	Network Tech Degree Curriculum Change (AAS and BS) ITS 130 Cyber security new class (unsure of numbers) (3 credits) ITS 238 Network security new class (3 credits) (NTS 205 is pre-req) Adjustment of course credit for ITS 280, NTS 204, NTS 205	Yes	Yes
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Meeting Minutes:
Working towards accreditation and paired with a mentor U of WA who is accredited in cyber security.
No pre for cyber

10) HCI	Adding an OR BMIS 375 OR BMIS 311 Remove CSCI Data mining 347	Yes	Yes
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Curriculum Review Committee Meeting Minutes– 04/26/18

	Change focus areas – Advising issue		
Meeting Minutes:			
11) Business and Information Technology	<p>Removal of HIT option (goes to BoR) Remove CAP 156 and 158 as required - becomes free elective (6 credits) (for BS in BIT) Remove BFIN 455 and Replace with BMIS 453 (for BS in BIT)</p> <p>Replacing courses for IT Option CSCI 114 Programming with C# (Replaces CSCI 110) CSCI 124 Advanced Programming C# (Replaces 321 advanced visual basic)</p> <p>Create a Technical Professional Certificate of Landman (Landman certificate) New classes needed) – not sure which are new here BGEN 430 Basic Oil and Gas Law I BGEN 431 Basic Oil and Gas Law II BGEN 432 Basic Property & Probate Law (new class) BGEN 433 Oil and Gas Land Management System (new class) ACTG 335 Nat Resource accounting</p> <p>Change course number to a higher level BMIS 275 to BMIS XXX Business Modeling II (request course number)</p>	Yes	
Meeting Minutes: Not a Natural Resource Option which would be part of the BS program- distance certificate is being proposed – opens it up to non-business majors			
12) Web Development and Administration	<p>Curriculums change (reduce degree requirements by 9) = total of 61 Drop IT 100 IT 280 PTC 2506</p>	Yes	
Meeting Minutes:			

Nominations for Chair 2018-2019 – no one stepped up, Stack will take it for another year

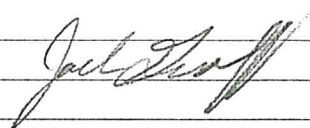
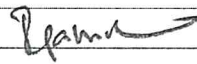
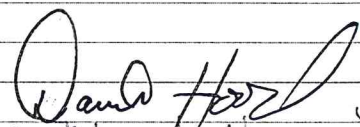
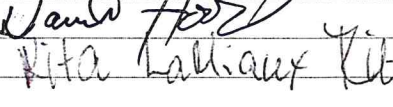

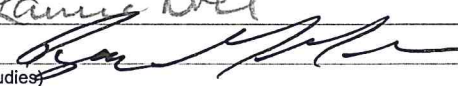
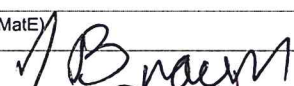
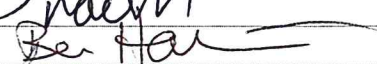
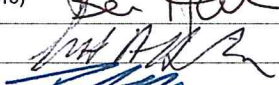

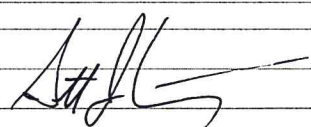
Curriculum Review Committee

Home ► My courses ► CRC ► Membership 2017-2018 ► 2017-2018 Membership

ADD A BLOCK

Add... ▾

2017-2018 Membership

2017-2018 CRC Committee	Spring
1	Joel Graff (2016) (Biology) 
2	Liping Jiang (2018) CivEng
3	Larry Smith (2016) (GeoE)
4	Paul Conrad (2007) (MinE)
5	Nagisetty, Raja (2017) (EnvE) 
6	Kristi Bailey (2016) (HCI)
7	Linda Granger (2001) (Bus Tech)
8	Nick Hawthorne (2012) (PTC)
9	David Hood (2016) (BIT) 
10	Ed Metesh (2004) (Network Technology) 
11	Atish Mitra (2014) (Math & Statistics)
12	John Morrison (2009) (EE)
13	Susan Schrader (PetE)
14	Laurie Noel (2006) (Nursing) 
15	Ryan Mulcahy (2017) (Health) 
13	Isabel Campos (2008) (Liberal Studies)
17	Tony Patrick (2015) (Trades & Technical)
18	Marvin Speece (1998) (GeopE)
19	Theresa Stack (2014) (Chair) (SH/IH)
20	Avimanyu Das (2018) (Met/MatE)
21	Jeff Braun (2001) (CS) 
22	Bev Hartline (Graduate School 2015) 
23	Scott Heidecke (Chemistry 2016) 
24	Peter Lucon (Mechanical 2018) 
25	Dawn Atkinson (2017 Writing)
	Doug Abbott (Ex-Officio)
	Scott Juskiewicz (Ex-Officio) 
	Leslie Dickerson (Ex-Officio)

add to mailing list: Pat Munday , Andrew Thomas, Rebecca Morris, All Deans, S Risser

Protocol: The department requesting curriculum change holds a discussion at the departmental level, and if agreed upon by the department head, discuss with the Dean for approval. Forward the completed form along with supporting information to the CRC chair after approval from the department head, dean, and graduate council if necessary. Final changes are then made by the registrar after faculty senate approval. Guidance: <https://www.umt.edu/provost/faculty/curriculum/default.php>.

Date 02/28/18

Dept. Petroleum Engineering

College SME

Program: MS Petroleum Engineering

Description of Request/Summary:

Establish new course in the MS Petroleum Engineering program.

Current Course Program Information:

Course is currently offered as a special topics course (PET 591) in the Petroleum Engineering program.

Proposed Change (Attach syllabus or curriculum for new course or curriculum changes.)

<u>Course # Name</u>	<u>Credits</u>	<u>Pre-req.</u>
PET 512 – Offshore Drilling and Completion Operations	3	PET 301 and 305 and permission of the instructor

A study of operations and equipment concentrating on offshore drilling and completions. The course will include topics from both the shelf area and deepwater. This includes fixed and floating offshore rigs and rig equipment, surface and subsea wellheads and BOP's, well control operations, directional drilling, overburden and frac gradients, expandable casing, rig positioning, station keeping, motion compensation, drilling risers, and logistics. A study of different offshore basins including the Gulf of Mexico, West Africa, the North Sea, and the arctic area.

List of supporting documentation attached:

Syllabus

Class Ethics, Grading and Homework Policy

Testing Procedures

Assessment Leading to Request

Initially we conducted an informal survey of students and industry professionals to establish the level of interest for this class. The course then began on a trial basis for the Fall semesters of 2016 and 2017. We received good student feedback and continued interest on the course and it merits adding it to the curriculum.

Anticipated Impacts to "Other" Programs

None

Impact on Library:

None

Date to take effect:

Fall 2018

LEVEL of Request

Please indicate the type of request(s) by selecting *all that apply*:

Faculty Approvals (directly to CRC, then Faculty Senate):

- Establish a new course for the catalog (please contact the Registrar of MUS CCN Information)
- Changed course; addition, deletion or change of title, credit, course number, pre-req, description, or cross listing.
- Amend an existing degree program. Making changes to programs such as adding a writing course to a major, changing the list of accepted electives or removing a requirement of a minor
- New degree certification of 29 credits or less
- Other:

Campus Approvals (must be approved by the VCAA prior to CRC submission):

- Placing a postsecondary educational program into moratorium
- Withdrawing a postsecondary educational program from moratorium
- Establishing, re-titling, terminating or revising a campus certificate of 29 credits or more
- Establishing a B.A.S./A.A./A.S. area of study
- Offering an existing postsecondary educational program via distance or online delivery
- Other:

OCHE Approvals (must be approved by the VCAA and Chancellor prior to CRC submission):

- Re-titling an existing postsecondary educational program
- Terminating an existing postsecondary educational program
- Consolidating existing postsecondary educational programs
- Establishing a new minor where there is a major or an option in a major
- Revising a postsecondary educational program
- Establishing a temporary C.A.S. or A.A.S. degree program Approval limited to 2 years
- Other:

Level II (must be approved by the VCAA and Chancellor prior to CRC submission):

- Establishing a new postsecondary educational program
- Exceeding the 120 credit maximum for baccalaureate degrees Exception to policy 301.11
- Forming, eliminating or consolidating an academic, administrative, or research unit
- Re-titling an academic, administrative, or research unit
- Other:

APPROVALS

Department Head Approval

Date

3/1/2018

Dean Approval

Date

3-1-18

VCAAR Approval (see above)

Date

Chancellor Approval (see above)

Date

Graduate Council Approval

Date

4-5-18

4/30/18

Protocol: The department requesting curriculum change holds a discussion at the departmental level, and if agreed upon by the department head, discuss with the Dean for approval. Forward the completed form along with supporting information to the CRC chair after approval from the department head, dean, and graduate council if necessary. Final changes are then made by the registrar after faculty senate approval. Guidance: <https://www.umt.edu/provost/faculty/curriculum/default.php>.

Date 3/1/18
Dept. Medical Assistant, Radiology, Surgical Tech **College** Highlands
Program: Health Programs

Description of Request/Summary: The Math Department, Medical Assistant, Radiology, and Surgical Tech Departments at Highlands College is requesting to replace the current math requirement of Math for Health Careers (Math 116) and College Algebra (Math 121) with a different math course for students enrolled in the program. The new math course is College Math for Healthcare (Math 140).

Current Course Program Information:

Math 116 ^{OR M 121} Math for Health Careers 3 See attached Syllabus Math 095

Proposed Change (Attach syllabus or curriculum for new course or curriculum changes.)

Course #	Name	Credits	Pre-req.
Math 140	College Math for Healthcare	3	See attachment

See attachment See attachment

This should include what will appear in the catalog, exactly.

List of supporting documentation attached:

1. Example: attached
2. Example: attached

Assessment Leading to Request

Currently the required math courses for students to graduate in the Medical Assistant, Radiology, and Surgical Tech Program is Math for Health Careers (Math 116) or College Algebra (Math 121). These courses have become less relevant and 116 is remedial medical math course designed to prepare students to utilize in the medical field. The content of the Math 116 no longer provides an adequate ladder for future medical programs and does not meet the pre-requisite for statistics.

Anticipated Impacts to "Other" Programs

The content in Math 140 is more relevant for students enrolled in the Medical Assistant Program, Radiology Program, and Surgical Tech than Math 116 or Math 121. Math 140 will provide job related math content in the form of "real life" applications for health professions. The relevance of the math content in Math 140 to a student's chosen profession may impact student motivation, student success and overall retention resulting in an increase in completion rates of students enrolled in the Health Programs. Math 140 will also regulate in higher

concurrence with Common Course Numbering of the Montana University System. Also, the addition of this course reduces the number of students that will need to enroll in the remedial course of Math 095 by replacing it with a more rigorous but relevant math course.

Impact on Library: XXXXXXXXXXXX has consulted with XXNameXX (XX/XX/XX) at the Montana Tech library to ensure needed materials and media are available. (Or No consultation is required since changes are only in the course number, course name, or course pre-requisites.)

No consultation is required since changes are only in the course number, course name, or course pre-requisites.

Date to take effect: Fall 2018

LEVEL of Request

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- New degree certification of 29 credits or less
- Other:

Campus Approvals (must be approved by the VCAA prior to CRC submission):

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- Other:

OCHE Approvals (must be approved by the VCAA and Chancellor prior to CRC submission):

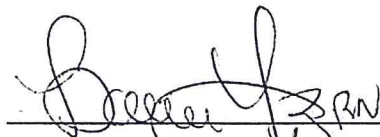
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- Other:

APPROVALS

Department Head Approval




Date 3/1/18

Dean Approval



Date 3-6-18

Graduate Council Approval _____ Date _____

CRC Approval  _____ Date 4/30/18

Faculty Senate Approval _____ Date _____

VCAA Approval (see above) _____ Date _____

Chancellor Approval (see above) _____ Date _____

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Date 3/7/18
Dept. Trades and Technical College Highlands
Program: Civil Engineering Technology

Description of Request/Summary: Create new course SRVY 255 – Surveying Calculations. This course is required to meet the Montana Board of Professional Engineers and Professional Land Surveyors conditions for a Certificate in Land Surveying; this certificate, earned after an A.A.S. in Civil Engineering Technology, would satisfy the Board’s education requirements for acceptance to the NCEES Fundamentals of Land Surveying exam.

Current Course Program Information: N/A. New offering. The name and number are consistent with existing course at Flathead Valley Community College.

Proposed Change (Attach syllabus or curriculum for new course or curriculum changes.)

Course # Name	Credits	Pre-req.
SRVY 255 – Surveying Calculations	3	SRVY 230, SRVY 273, SRVY 247
An in-depth study of advanced calculations used in the surveying profession: coordinate geometry; scale, rotation, and translation of coordinates; parcel adjustments; and preparation for the Fundamentals of Land Surveying exam.		

List of supporting documentation attached:

1. Syllabus (in development as of 3/7/18)

Assessment Leading to Request

In 2014 I initiated a discussion with the Montana Board of Professional Engineers and Professional Land Surveyors to see if the Civil Engineering Technology degree could offer graduates a path to the NCEES Fundamentals of Land Surveying exam. To meet the Board’s curriculum requirements of 16 credits in Principles and Practices of Land Surveying, this course must be offered.

Anticipated Impacts to “Other” Programs

No impacts anticipated. This course does not require any lab time and will be delivered online.

Impact on Library: No library resources are needed to support this course.

Date to take effect: Fall 2018

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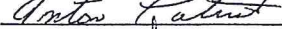
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- Other:

APPROVALS

Department Head Approval  Date 3/12/18

Dean Approval  Date 3/26/17

VCAAR Approval (see above) _____ Date _____

Chancellor Approval (see above) _____ Date _____

Graduate Council Approval _____ Date _____

CRC Approval  Date 4/30/18

Faculty Senate Approval _____ Date _____

Protocol: The department requesting curriculum change holds a discussion at the departmental level, and if agreed upon by the department head, discuss with the Dean for approval. Forward the completed form along with supporting information to the CRC chair after approval from the department head, dean, and graduate council if necessary. Final changes are then made by the registrar after faculty senate approval. Guidance: <https://www.umt.edu/provost/faculty/curriculum/default.php>.

Date: 3/7/18
 Dept: Trades and Technical College Highlands
 Program: Civil Engineering Technology

Description of Request/Summary: Create new course SRVY 255 – Surveying Calculations. This course is required to meet the Montana Board of Professional Engineers and Professional Land Surveyors conditions for a Certificate in Land Surveying; this certificate, earned after an A.A.S. in Civil Engineering Technology, would satisfy the Board’s education requirements for acceptance to the NCEES Fundamentals of Land Surveying exam.

Current Course Program Information: N/A. New offering. The name and number are consistent with existing course at Flathead Valley Community College.

Proposed Change (Attach syllabus or curriculum for new course or curriculum changes.)

Course # Name	Credits	Pre-reg.
SRVY 265 – Surveying Laws and Land Division	3	DDSN 245, SRVY 262
A study of selected state laws and regulations that pertain to the surveying profession; laws that affect the surveying and division of lands in Montana; layout and design of subdivisions.		

List of supporting documentation attached:

1. Syllabus (in development as of 3/7/18)

Assessment Leading to Request

In 2014 I initiated a discussion with the Montana Board of Professional Engineers and Professional Land Surveyors to see if the Civil Engineering Technology degree could offer graduates a path to the NCEES Fundamentals of Land Surveying exam. To meet the Board’s curriculum requirements of 16 credits in Principles and Practices of Land Surveying, this course must be offered.

Anticipated Impacts to “Other” Programs

No impacts anticipated. This course does not require any lab time and will be delivered online.

Impact on Library: No library resources are needed to support this course.

Date to take effect: Fall 2018

LEVEL of Request

Please indicate the type of request(s) by selecting *all that apply*:

Faculty Approvals (directly to CRC, then Faculty Senate):

- Establish a new course for the catalog (please contact the Registrar of MUS CCN information)
- Changed course: addition, deletion or change of title, credit, course number, pre-req, description, or cross listing.
- Amend an existing degree program. Making changes to programs such as adding a writing course to a major, changing the list of accepted electives or removing a requirement of a minor
- New degree certification of 29 credits or less
- Other:

Campus Approvals (must be approved by the VCAA prior to CRC submission):

- Placing a postsecondary educational program into moratorium
- Withdrawing a postsecondary educational program from moratorium
- Establishing, re-titling, terminating or revising a campus certificate of 29 credits or more
- Establishing a B.A.S./A.A./A.S. area of study
- Offering an existing postsecondary educational program via distance or online delivery
- Other:

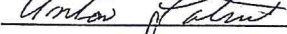
OCHS Approvals (must be approved by the VCAA and Chancellor prior to CRC submission):

- Re-titling an existing postsecondary educational program
- Terminating an existing postsecondary educational program
- Consolidating existing postsecondary educational programs
- Establishing a new minor where there is a major or an option in a major
- Revising a postsecondary educational program
- Establishing a temporary C.A.S. or A.A.S. degree program Approval limited to 2 years
- Other:

Level II (must be approved by the VCAA and Chancellor prior to CRC submission):

- Establishing a new postsecondary educational program
- Exceeding the 120 credit maximum for baccalaureate degrees Exception to policy 301.11
- Forming, eliminating or consolidating an academic, administrative, or research unit
- Re-titling an academic, administrative, or research unit
- Other:

APPROVALS

Department Head Approval  Date 3/2/18

Dean Approval  Date 3/2/18

VCAAR Approval (see above) _____ Date _____

Chancellor Approval (see above) _____ Date _____

Graduate Council Approval _____ Date _____

CRC Approval  Date 4/30/18

Faculty Senate Approval _____ Date _____

Protocol: The department requesting curriculum change holds a discussion at the departmental level, and if agreed upon by the department head, discuss with the Dean for approval. Forward the completed form along with supporting information to the CRC chair after approval from the department head, dean, and graduate council if necessary. Final changes are then made by the registrar after faculty senate approval. Guidance: <https://www.umt.edu/provost/faculty/curriculum/default.php>.

Date 3/7/18
Dept. Trades and Technical **College** Highlands
Program: Civil Engineering Technology

Description of Request/Summary: ETCC 235 is an existing 2-credit course in the CET curriculum. I am requesting this class be increased to 3 credits.

Current Course Program Information: N/A. New offering. The name and number are consistent with existing course at Flathead Valley Community College.

Proposed Change (Attach syllabus or curriculum for new course or curriculum changes.)

Course # Name	Credits	Pre-req.
ETCC 235 – Construction Legal Docs and Specifications	3	None

An introduction to laws, contracts, engineering/construction specifications, and proper documentation for the engineering/technical profession. This course also examines the overall construction process including bidding and estimating strategies, labor laws and relations, project safety, and ethical considerations. Students will learn Montana's legislative process and how to navigate through the Montana Code Annotated. Students will learn how to retrieve information from public offices such as the Office of the Clerk and Recorder and the local Health Department.

List of supporting documentation attached:

1. Syllabus

Assessment Leading to Request

In 2014 I initiated a discussion with the Montana Board of Professional Engineers and Professional Land Surveyors to see if the Civil Engineering Technology degree could offer graduates a path to the NCEES Fundamentals of Land Surveying exam. To meet the Board's curriculum requirements of 16 credits in Principles and Practices of Land Surveying, they requested this course be increased from 2 to 3 credits so it may include a component of public records research.

Anticipated Impacts to "Other" Programs

No impacts anticipated. This course does not require any lab time and will be delivered online.

Impact on Library: No library resources are needed to support this course.

Date to take effect: Spring 2019

LEVEL of Request

Please indicate the type of request(s) by selecting *all that apply*:

Faculty Approvals (directly to CRC, then Faculty Senate):

- Establish a new course for the catalog (please contact the Registrar of MUS CCN information)
- Changed course: addition, deletion or change of title, credit, course number, pre-req, description, or cross listing.**
- Amend an existing degree program. Making changes to programs such as adding a writing course to a major, changing the list of accepted electives or removing a requirement of a minor
- New degree certification of 29 credits or less

Other:

Campus Approvals (must be approved by the VCAA prior to CRC submission):

- Placing a postsecondary educational program into moratorium
- Withdrawing a postsecondary educational program from moratorium
- Establishing, re-titling, terminating or revising a campus certificate of 29 credits or more
- Establishing a B.A.S./A.A./A.S. area of study
- Offering an existing postsecondary educational program via distance or online delivery
- Other:

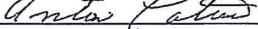
OCHE Approvals (must be approved by the VCAA and Chancellor prior to CRC submission):

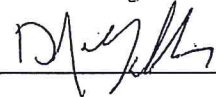
- Re-titling an existing postsecondary educational program
- Terminating an existing postsecondary educational program
- Consolidating existing postsecondary educational programs
- Establishing a new minor where there is a major or an option in a major
- Revising a postsecondary educational program
- Establishing a temporary C.A.S. or A.A.S. degree program Approval limited to 2 years
- Other:

Level II (must be approved by the VCAA and Chancellor prior to CRC submission):

- Establishing a new postsecondary educational program
- Exceeding the 120 credit maximum for baccalaureate degrees Exception to policy 301.11
- Forming, eliminating or consolidating an academic, administrative, or research unit
- Re-titling an academic, administrative, or research unit
- Other:

APPROVALS

Department Head Approval  Date 3/2/18

Dean Approval  Date 3-28-18

VCAAR Approval (see above) _____ Date _____

Chancellor Approval (see above) _____ Date _____

Graduate Council Approval _____ Date _____

CRC Approval  Date 4/30/18

Faculty Senate Approval _____ Date _____

Protocol: The department requesting curriculum change holds a discussion at the departmental level, and if agreed upon by the department head, discuss with the Dean for approval. Forward the completed form along with supporting information to the CRC chair after approval from the department head, dean, and graduate council if necessary. Final changes are then made by the registrar after faculty senate approval. Guidance: <https://www.umt.edu/provost/faculty/curriculum/default.php>.

Date 3/7/18
Dept. Trades and Technical College Highlands
Program: Civil Engineering Technology

Description of Request/Summary: Create a Certificate of Land Surveying. This certificate is required to meet the Montana Board of Professional Engineers and Professional Land Surveyors educational requirements for acceptance to the NCEES Fundamentals of Land Surveying exam. This certificate, earned after an A.A.S. in Civil Engineering Technology, would allow graduates immediate entry to the FLS exam in Montana.

Current Course Program Information: N/A. New offering.

Proposed Change (Attach syllabus or curriculum for new course or curriculum changes.)

Course #	Name	Credits	Pre-req.
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List of supporting documentation attached:

1. Administrative Rule of Montana 24.183.303 - Definitions
2. Montana Code Annotated 37-67-326 – Qualifications of Applicant for Examination and Certification as Land Survey Intern
3. Administrative Rule of Montana 24.183.501 – Board-Approved Curricula
4. Formal request for Board to review CET curriculum and LS certificate for compliance with MCA 37-67-326 and ARM 24.183.501, dated March 19, 2016 (9 pages). Respective curriculum worksheets are on page 2 of this attachment.
5. Approval letter from the Board of PELS, dated March 1, 2018.

Assessment Leading to Request

In 2014 I initiated a discussion with the Montana Board of Professional Engineers and Professional Land Surveyors to see if the Civil Engineering Technology degree could offer graduates a path to the NCEES Fundamentals of Land Surveying exam. To meet the Board's curriculum requirements as outlined in A.R.M. 24.183.303(1)(b), a Certificate of Land Surveying is needed to augment the CET degree.

Anticipated Impacts to "Other" Programs

Two new SRVY courses must be created to satisfy this request. These courses would not impact other programs.

In addition to the target audience of CET students, CE students who wish to pursue land surveying licensure in addition to their engineering licensure would be able to acquire this certificate by satisfying the requirements of the CET curriculum (much of which could be satisfied with substitutes from their CE degree) and taking the requisite SRVY courses. I estimate this to be 15 to 18 credits after finishing their CE degree, or less if they are able to use SRVY credits as professional electives.

Impact on Library: No library resources are needed to support this certificate.

Date to take effect: Fall 2018

LEVEL of Request

Please indicate the type of request(s) by selecting *all that apply*:

Faculty Approvals (directly to CRC, then Faculty Senate):

- Establish a new course for the catalog (please contact the Registrar of MUS CCN information)
- Changed course: addition, deletion or change of title, credit, course number, pre-req, description, or cross listing.

MontanaTech Curriculum Change Request Form Dated 2 Feb 2017

- Amend an existing degree program. Making changes to programs such as adding a writing course to a major, changing the list of accepted electives or removing a requirement of a minor
- New degree certification of 29 credits or less
- Other:

Campus Approvals (must be approved by the VCAA prior to CRC submission):

- Placing a postsecondary educational program into moratorium
- Withdrawing a postsecondary educational program from moratorium
- Establishing, re-titling, terminating or revising a campus certificate of 29 credits or more
- Establishing a B.A.S./A.A./A.S. area of study
- Offering an existing postsecondary educational program via distance or online delivery
- Other:

OCHE Approvals (must be approved by the VCAA and Chancellor prior to CRC submission):

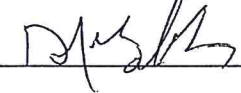
- Re-titling an existing postsecondary educational program
- Terminating an existing postsecondary educational program
- Consolidating existing postsecondary educational programs
- Establishing a new minor where there is a major or an option in a major
- Revising a postsecondary educational program
- Establishing a temporary C.A.S. or A.A.S. degree program Approval limited to 2 years
- Other:

Level II (must be approved by the VCAA and Chancellor prior to CRC submission):

- Establishing a new postsecondary educational program
- Exceeding the 120 credit maximum for baccalaureate degrees Exception to policy 301.11
- Forming, eliminating or consolidating an academic, administrative, or research unit
- Re-titling an academic, administrative, or research unit
- Other:

APPROVALS

Department Head Approval  Date 3/12/18

Dean Approval  Date 3-26-18

VCAAR Approval (see above) _____ Date _____

Chancellor Approval (see above) _____ Date _____

Graduate Council Approval _____ Date _____

CRC Approval  Date 4/30/18

Faculty Senate Approval _____ Date _____

Date 3/27/18

Dept. Network Technology

Program: Network Technology

College CLSPS/Highlands

Description of Request/Summary:

Trying to be cert

Add a new required course, adjust credits on 3 other courses

Proposed Change (Attach syllabus or curriculum for new course or curriculum changes.)

Course # Name	Credits	Pre-req.
ITS 130 Cybersecurity Essentials	3	none

The Cybersecurity Essentials course develops foundational understanding of cybersecurity and how it relates to information and network security. This course introduces students to characteristics of cybercrime, security principles, technologies, and procedures to defend networks. The course is presented using interactive, multimedia content, lab activities using network simulators and virtual machines, and multi-industry case studies.

Change ITS 280 Computer Repair & Maintenance from 4 credits to 3 credits
Change NTS 204 Scaling Networks from 4 credits to 3 credits
Change NTS 205 Connecting Networks from 4 credits to 3 credits

List of supporting documentation attached:

1. Syllabus included

Assessment Leading to Request

Cybersecurity/network security/computer security/IT security represent the fastest growing occupations in our arena. We have been adopting content and coursework which will qualify our program to be recognized as a National Center for Academic Excellence in Cyber Defense.

Our CCNA level coursework usually has a major re-write every other year. We feel that we can deliver the essential material of the above named courses in a reduced time frame.

Anticipated Impacts to "Other" Programs

Students from other programs take the ITS 280 course. Credit reduction may be a concern

Impact on Library: Ed Metesh has consulted with Scott Juskiewicz (3/27/18) at the Montana Tech library to ensure needed materials and media are available.

Date to take effect: Immediately

LEVEL of Request

Please indicate the type of request(s) by selecting *all that apply*:

Faculty Approvals (directly to CRC, then Faculty Senate):

Establish a new course for the catalog (please contact the Registrar of MUS CCN information)

Changed course: addition, deletion or change of title, credit, course number, pre-req, description, or cross listing.

Amend an existing degree program. Making changes to programs such as adding a writing course to a major, changing the list of accepted electives or removing a requirement of a minor

MontanaTech

Curriculum Change Request Form Dated 8 May 2017

APPROVALS

Department Head Approval

E J Metzger

Date 3/29/18

Dean Approval

_____ Date _____

Graduate Council Approval

_____ Date _____

CRC Approval

J. H. H. H.

Date 4/30/18

Faculty Senate Approval

_____ Date _____

VCAA Approval (see above)

_____ Date _____

Chancellor Approval (see above)

_____ Date _____

Date 3/27/18

Dept. Network Technology

College CLSPS/Highlands

Program: Network Technology

Description of Request/Summary:

Add a new required course, remove an existing course.

Proposed Change (Attach syllabus or curriculum for new course or curriculum changes.)

Course # Name	Credits	Pre-req.
ITS 238 Network Security Fundamentals	3	NTS 205 or COI

This course provides an introduction to the fundamentals of network security, including compliance and operational security; threats and vulnerabilities; application, data, and host security; access control and identity management; and cryptography. The course also covers psychological approaches to social engineering attacks, Web application attacks, penetration testing, data loss prevention, cloud computing security, and application programming development security. Many hands-on labs reinforce the chapter objectives. This course offers a comprehensive guide for anyone wishing to take the CompTIA Security+ Certification Exam.

Remove required course:
ITS 125 Fund. Of Voice and Data Cabling 3cr

List of supporting documentation attached:

1. Syllabus included

Assessment Leading to Request

Cybersecurity/network security/computer security/IT security represent the fastest growing occupations in our arena. We have been adopting content and coursework which will qualify our program to be recognized as a National Center for Academic Excellence in Cyber Defense. This course was offered as a Special Topics course this semester.

Some of the essential skills gained in the ITS 125 course will be moved to the NTS 104 Intro. To Networks class and the ITS 355 IP Telephony course.

Anticipated Impacts to "Other" Programs

none

Impact on Library: Ed Metesh has consulted with Scott Juskiewicz (3/27/18) at the Montana Tech library to ensure needed materials and media are available.

Date to take effect: Immediately

LEVEL of Request

Please indicate the type of request(s) by selecting *all that apply*:
Faculty Approvals (directly to CRC, then Faculty Senate):

X Establish a new course for the catalog (please contact the Registrar of MUS CCN information)

X Amend an existing degree program. Making changes to programs such as adding a writing course to a major, changing the list of accepted electives or removing a requirement of a minor

APPROVALS

Department Head Approval



Date 3/29/18

Dean Approval

_____ Date _____

Graduate Council Approval

_____ Date _____

CRC Approval



Date 4/30/18

Faculty Senate Approval

_____ Date _____

VCAA Approval (see above)

_____ Date _____

Chancellor Approval (see above)

_____ Date _____

MontanaTech

Curriculum Change Request Form Dated 8 May 2017

Protocol: The department requesting curriculum change holds a discussion at the departmental level, and if agreed upon by the department head, discuss with the Dean for approval. Forward the completed form along with supporting information to the CRC chair after approval from the department head, dean, and graduate council if necessary. Final changes are then made by the registrar after faculty senate approval. Guidance: <https://www.umd.edu/provost/faculty/curriculum/default.php>.

Date 4/16/18
Dept. IT College Highlands
Program: Web Development and Administration
Description of Request/Summary:

Drop 3 required courses from the degree program to align the credit load with other AAS degrees.

Proposed Change (Attach syllabus or curriculum for new course or curriculum changes.)

Course # Name	Credits	Pre-req.
Drop - IT100 Web Page Fundamentals	3	
Drop - IT280 Oracle II	3	
Drop - PTC2506 Web Page Design	3	

List of supporting documentation attached:

1. Curriculum worksheet

Reduce degree req by
9 = 61 total

Assessment Leading to Request

With standards changing, the number of necessary topics to be covered in IT100 Web Page Fundamentals and IT117 Web Site Development have reduced. The necessary concepts and skills for both these courses can be adequately covered in IT117 Web Site Development.

Drop PTC2506 Web Page Design: From several interviews with Web Development Graduates over the past 4 years, it is apparent that the necessary Web Development and Administration skills from this course are already covered in the required combined courses of IT100 Web Page Fundamentals, IT117 Web Site Development, and PTC1146 Visual Rhetoric.

Anticipated Impacts to "Other" Programs

None

Impact on Library: No consultation required.

Date to take effect: Immediately

LEVEL of Request

Please indicate the type of request(s) by selecting *all that apply*:

Faculty Approvals (directly to CRC, then Faculty Senate):

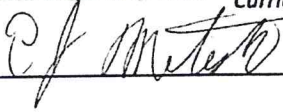
- Establish a new course for the catalog (please contact the Registrar of MUS CCN information)
- Changed course: addition, deletion or change of title, credit, course number, pre-req, description, or cross listing.

MontanaTech

Curriculum Change Request Form Dated 8 May 2017

APPROVALS

Department Head Approval

 _____ Date 4/19/18


Dean Approval

_____ Date _____

Graduate Council Approval

_____ Date _____

CRC Approval

 _____ Date _____

Faculty Senate Approval

_____ Date _____

VCAA Approval (see above)

_____ Date _____

Chancellor Approval (see above)

_____ Date _____

MontanaTech

Curriculum Change Request Form Dated 8 May 2017

Protocol: The department requesting curriculum change holds a discussion at the departmental level, and if agreed upon by the department head, discuss with the Dean for approval. Forward the completed form along with supporting information to the CRC chair after approval from the department head, dean, and graduate council if necessary. Final changes are then made by the registrar after faculty senate approval. Guidance: <https://www.umt.edu/provost/faculty/curriculum/default.php>.

Date 04/15/2018

Dept. Business and Information Technology

College CLSPS

Program: Bachelor of Science

Description of Request/Summary: The Department of Business and Information Technology requests a change in the course number for its Business Modeling I course. The current rubric for the course is BMIS 275 and the course is scheduled to be taken in the student's sophomore year. This course is followed by BMIS 375 Business Modeling II, a course scheduled to be completed in the student's junior year. Under the current schedule, there is a gap of one semester between the semester the students take the Modeling I course and the Modeling II course.

We are the only school in the MUS to offer these specific courses. The primary purpose of the two-course series was to improve the quantitative analysis abilities of our students. The quantitative analysis scores as measured by the ETS- Major field of study exam has not significantly improved since the introduction of this series and the Department would like to continue to increase the quantitative requirements of the course. The Department would like to move the class to the junior year and include STAT 216 as prerequisite. It is thought the course can build on the prerequisite to improve the quantitative analysis abilities of our students.

Current Course Program Information:

BMIS 275 Business Modeling I = higher level

Through the use of exercises and case studies of intermediate complexity, students will apply knowledge and skills acquired in Computer Applications 156 and 158, Microsoft Excel and Microsoft Access and in other business courses, to develop creative and innovative solutions to a variety of business problems, while gaining additional proficiency in the use of the advanced features of Microsoft Excel and Microsoft Access.

Proposed Change (Attach syllabus or curriculum for new course or curriculum changes.)

Course # Name	Credits	Pre-req.
BMIS 3XX Business Modeling I	3	STAT 216

This course provides the student with the knowledge and skills to develop creative and innovative solutions to a variety of business problems, including reliable forecasts, while gaining additional proficiency in the use of the advanced features of Microsoft Excel.

List of supporting documentation attached:

1. Proposed syllabus attached

Assessment Leading to Request

The Department requires its senior students to complete the ETS Major Field of Study exam. Historically, the scores in the Quantitative Business section have been below the 50th percentile but the scores have been below the 30th percentile in each of the last two years. After discussions with our Industrial Advisory Board we concluded that we would like to use the two-course business modeling series to introduce and expand the quantitative business models considered to be important in an undergraduate business program. It is believed that this increased emphasis should happen in the junior year after students have completed the STAT 216 course.

Anticipated Impacts to "Other" Programs

The course is required under the bachelor of science degree program for Health Care Informatics. The proposal has been discussed with the Department Head of the HCI program.

Impact on Library: Tim Kober has consulted with Scott Juskiewicz (04/17/2018 at the Montana Tech library to ensure needed materials and media are available. (Or No consultation is required since changes are only in the course number, course name, or course pre-requisites.)

Date to take effect: 2018-19 Catalog

LEVEL of Request

Please indicate the type of request(s) by selecting *all that apply*:

MontanaTech

Curriculum Change Request Form Dated 8 May 2017

Faculty Approvals (directly to CRC, then Faculty Senate):

- Establish a new course for the catalog (please contact the Registrar of MUS CCN information)
- X Changed course: addition, deletion or change of title, credit, course number, pre-req, description, or cross listing.
- Amend an existing degree program. Making changes to programs such as adding a writing course to a major, changing the list of accepted electives or removing a requirement of a minor
- New degree certification of 29 credits or less
- Other:

Campus Approvals (must be approved by the VCAA prior to CRC submission):

- Placing a postsecondary educational program into moratorium
- Withdrawing a postsecondary educational program from moratorium
- Establishing, re-titling, terminating or revising a campus certificate of 29 credits or more
- Establishing a B.A.S./A.A./A.S. area of study
- Offering an existing postsecondary educational program via distance or online delivery
- Other:

OCHE Approvals (must be approved by the VCAA and Chancellor prior to CRC submission):

- Re-titling an existing postsecondary educational program
- Terminating an existing postsecondary educational program
- Consolidating existing postsecondary educational programs
- Establishing a new minor where there is a major or an option in a major
- Revising a postsecondary educational program
- Establishing a temporary C.A.S. or A.A.S. degree program Approval limited to 2 years
- Other:

Level II (must be approved by the VCAA and Chancellor prior to CRC submission):

- Establishing a new postsecondary educational program
- Exceeding the 120 credit maximum for baccalaureate degrees Exception to policy 301.11
- Forming, eliminating or consolidating an academic, administrative, or research unit
- Re-titling an academic, administrative, or research unit
- Other:

APPROVALS

Department Head Approval



Date

4/19/2018

Dean Approval

OK

Date

Graduate Council Approval

Date

CRC Approval



Date

4/30/18

Faculty Senate Approval

Date

VCAA Approval (see above)

Date

Chancellor Approval (see above)

Date

MontanaTech

Curriculum Change Request Form Dated 8 May 2017

Protocol: The department requesting curriculum change holds a discussion at the departmental level, and if agreed upon by the department head, discuss with the Dean for approval. Forward the completed form along with supporting information to the CRC chair after approval from the department head, dean, and graduate council if necessary. Final changes are then made by the registrar after faculty senate approval. Guidance: <https://www.umt.edu/provost/faculty/curriculum/default.php>.

Date 04/15/2018

Dept. Business and Information Technology

College CLSPS

Program: Bachelor of Science

Description of Request/Summary: The Department of Business and Information Technology requests a change in the course curriculums under its bachelor of science programs.

Current Course Program Information:

The bachelor of science degree allows students to complete coursework under six options. Currently, there are no known students in the Health Information Technology option and only one student has completed this Option since its inception in 2012. The Department is revisiting all of its options as a part of program prioritization and believe it makes sense to drop this option for the 2018 – 19 catalog. After visiting with Dr Charie Faught, we agree that to recommend the HCI minor to any business students interested in Health Care Informatics.

The CAPP 156 Excel and CAPP 158 Access courses are currently required courses in the program. These courses represent introductory courses and a number of our business students already are in possession of the outcomes of these course(s). The Department would like to remove these courses as requirements and replace them with free electives. This would allow the students who are proficient in Excel and Access to enroll in other, more valuable, coursework and the students in need of the CAPP 156 and/or 158 could continue to take the coursework.

The BFIN 455 Money, Capital Markets, and Institutions has long been a required course under our bachelor of science program. The course has been taught by an adjunct instructor over the last five years and probably better suited for a finance curriculum (which is not available at Montana Tech). In addition, the Department has made a commitment to incorporating SAP into its curriculum and has determined that the BMIS 453 Business Intelligence and Big Data Analytics fits nicely into the SAP framework and would add more value to a business student's core curriculum.

Proposed Change (Attach syllabus or curriculum for new course or curriculum changes.)

Course #	Name	Credits	Pre-req.
The Department requests the following three changes:			
1.	Removal of the option in Health Information Technology		- Goes to BOR
2.	The removal of CAPP 156 and 158 as required courses. These courses will be replaced with free electives.		
3.	Removing the requirement of BFIN 455 Money, Capital Markets, and Institutions and replacing it with BMIS 453 Business Intelligence and Big Data Analytics		

List of supporting documentation attached:

Proposed curriculum coursework attached.

Assessment Leading to Request

The Department has discussed this proposal in detail over the past academic year. Additionally, the proposal was discussed with students, alumni, and its industrial advisory board. The proposal has support from all parties.

Anticipated Impacts to "Other" Programs

No other programs are believed to be impacted by this proposal.

Impact on Library: Tim Kober has consulted with Scott Juskiwicz (04/17/18) at the Montana Tech library to ensure needed materials and media are available. (Or No consultation is required since changes are only in the course number, course name, or course pre-requisites.)

Date to take effect: 2018-19 Catalog

LEVEL of Request

Please indicate the type of request(s) by selecting *all that apply*:

Faculty Approvals (directly to CRC, then Faculty Senate):

- Establish a new course for the catalog (please contact the Registrar of MUS CCN information)
- Changed course: addition, deletion or change of title, credit, course number, pre-req, description, or cross listing.
- Amend an existing degree program. Making changes to programs such as adding a writing course to a major, changing the list of accepted electives or removing a requirement of a minor
- New degree certification of 29 credits or less
- Other:

Campus Approvals (must be approved by the VCAA prior to CRC submission):

- Placing a postsecondary educational program into moratorium
- Withdrawing a postsecondary educational program from moratorium
- Establishing, re-titling, terminating or revising a campus certificate of 29 credits or more
- Establishing a B.A.S./A.A./A.S. area of study
- Offering an existing postsecondary educational program via distance or online delivery
- Other:

OCHE Approvals (must be approved by the VCAA and Chancellor prior to CRC submission):

- Re-titling an existing postsecondary educational program
- Terminating an existing postsecondary educational program
- Consolidating existing postsecondary educational programs
- Establishing a new minor where there is a major or an option in a major
- Revising a postsecondary educational program
- Establishing a temporary C.A.S. or A.A.S. degree program Approval limited to 2 years
- Other:

Level II (must be approved by the VCAA and Chancellor prior to CRC submission):

- Establishing a new postsecondary educational program
- Exceeding the 120 credit maximum for baccalaureate degrees Exception to policy 301.11
- Forming, eliminating or consolidating an academic, administrative, or research unit
- Re-titling an academic, administrative, or research unit
- Other:

APPROVALS

Department Head Approval



Date 4/19/2018

Dean Approval

_____ Date _____

Graduate Council Approval

_____ Date _____

CRC Approval



Date 4/30/18

Faculty Senate Approval

_____ Date _____

MontanaTech

Curriculum Change Request Form Dated 8 May 2017

Protocol: The department requesting curriculum change holds a discussion at the departmental level, and if agreed upon by the department head, discuss with the Dean for approval. Forward the completed form along with supporting information to the CRC chair after approval from the department head, dean, and graduate council if necessary. Final changes are then made by the registrar after faculty senate approval. Guidance: <https://www.umt.edu/provost/faculty/curriculum/default.php>.

Date 04/15/2018

Dept. Business and Information Technology

College CLSPS

Program: Bachelor of Science

Description of Request/Summary: The Department of Business and Information Technology is submitting a request to create a Professional Landman Certificate. This is a second request (a copy of the initial request is attached). The initial request was made in February 2018 before the permanent course numbers existed for the Basic Oil & Gas Law I & II courses existed. All of the courses have now been approved and permanent course numbers exist. As such, we respectively resubmit the request to create a Professional Landman Certificate program.

Current Course Program Information:

This is a new certificate program.

Proposed Change (Attach syllabus or curriculum for new course or curriculum changes.)

The proposed Professional Landman Certificate will consist of five classes for a total of 15 credits. The Certificate may be completed by students in any discipline. The courses are designed to be upper division level courses but it was decided that there would be no formal listed prerequisites to aid the enrollment process.

Course # Name	Credits	Pre-req.
BGEN 430 Basic Oil & Gas Law I	3	none
BGEN 431 Basic Oil & Gas Law II	3	none
BGEN 432 Basic Property & Probate Law	3	none
BGEN 432 Basic Property & Probate Law	3	none
ACTG 335 Natural Resources ACCT, Tax and Financial Report	3	none

433 Oil + Gas
Land mgmt

List of supporting documentation attached:

curriculum worksheet attached.

Assessment Leading to Request

The proposal is part of the Business Department's move to an Option in Natural Resource Management under its bachelor of science program. The five courses in this certificate program are all required under the Option in Natural Resource Management but offering the five courses in a certificate format would allow any student from any discipling to gain training, and recognition, as a petroleum land management specialist without completing the entire Option program.

Overall, this certificate program is a 15-credit program that addresses the growing demand for well-trained professional petroleum land management specialists. It aims to provide a comprehensive understanding of the petroleum land management field for professionals who are looking to enter the industry or who are already in the energy land management field and are seeking formal training to advance their career. The courses and course content were developed with the consultation of professionals in the field. The proposal is also supported by Chancellor Blacketter and Provost Abbott.

Anticipated Impacts to "Other" Programs

No other programs are believed to be impacted by this proposal.

Impact on Library: Tim Kober has consulted with Scott Juskiewicz (02/18/18) at the Montana Tech library to ensure needed materials and media are available. (Or No consultation is required since changes are only in the course number, course name, or course pre-requisites.)

MontanaTech

Curriculum Change Request Form Dated 8 May 2017

Date to take effect: 2018-19 Catalog

LEVEL of Request

Please indicate the type of request(s) by selecting *all that apply*:

Faculty Approvals (directly to CRC, then Faculty Senate):

- Establish a new course for the catalog (please contact the Registrar of MUS CCN information)
- Changed course: addition, deletion or change of title, credit, course number, pre-req, description, or cross listing.
Amend an existing degree program. Making changes to programs such as adding a writing course to a major, changing the list of accepted electives or removing a requirement of a minor
- New degree certification of 29 credits or less
- Other:

Campus Approvals (must be approved by the VCAA prior to CRC submission):

- Placing a postsecondary educational program into moratorium
- Withdrawing a postsecondary educational program from moratorium
- Establishing, re-titling, terminating or revising a campus certificate of 29 credits or more
- Establishing a B.A.S./A.A./A.S. area of study
- Offering an existing postsecondary educational program via distance or online delivery
- Other:

OCHE Approvals (must be approved by the VCAA and Chancellor prior to CRC submission):

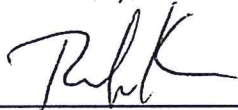
- Re-titling an existing postsecondary educational program
- Terminating an existing postsecondary educational program
- Consolidating existing postsecondary educational programs
- Establishing a new minor where there is a major or an option in a major
- Revising a postsecondary educational program
- Establishing a temporary C.A.S. or A.A.S. degree program Approval limited to 2 years
- Other:

Level II (must be approved by the VCAA and Chancellor prior to CRC submission):

- Establishing a new postsecondary educational program
- Exceeding the 120 credit maximum for baccalaureate degrees Exception to policy 301.11
- Forming, eliminating or consolidating an academic, administrative, or research unit
- Re-titling an academic, administrative, or research unit
- Other:

APPROVALS

Department Head Approval



Date

4/18/2018

Dean Approval

Date

Graduate Council Approval

Date

CRC Approval



Date

4/30/18

Faculty Senate Approval

Date

VCAA Approval (see above)

Date

Chancellor Approval (see above)

Date

Protocol: The department requesting curriculum change holds a discussion at the departmental level, and if agreed upon by the department head, discuss with the Dean for approval. Forward the completed form along with supporting information to the CRC chair after approval from the department head, dean, and graduate council if necessary. Final changes are then made by the registrar after faculty senate approval. Guidance: <https://www.umt.edu/provost/faculty/curriculum/default.php>.

Date 21 Mar 2018

Dept. Biology College CLPS

Program: Biology

Description of Request/Summary: The field of biology is diverse; it encompasses cellular and molecular studies to population modeling and human-dimensions of conservation. Our request is to revise the biology minor in a way that updates the curriculum so that it reflects the current courses, has the appropriate structure, and avails itself to current student focus. Specifically, the original (existing) minor was designed more than 10 years ago and has a sharp focus on ecology. Today, our department has as many cellular/molecular students as we do organismal (ecology), in addition, our course offerings have changed moderately. Our revised biology minor reflects these changes. We require 8 credits of the freshman level courses which ensures all minors have the same basic training, followed by 13 credits of any other biology class of their choosing, 1/3 of which must be 300 and above.

The nature of our course succession for the full biology manor is set up in such a way that certain prerequisites are mandated for upper-level courses. This lends itself well to the minor insofar as it will not be possible for students to get caught up in an upper-level class without preparation. By selecting a specific few classes, students will be able to create and follow a self-designed track with some flexibility. This individual design will allow minors from PTC to have a different set of biology courses that specifically lend themselves to complement the major and be unique from biology minors from a Chemistry major.

Current Course Program Information: Biology Minor- original, see: attached.

Proposed Change (Attach syllabus or curriculum for new course or curriculum changes.)

Course # Name	Credits	Pre-req.
Biology Minor, revised. See: attached	21	

List of supporting documentation attached:

1. Example: Biology Minor, original
2. Example: Biology Minor, revised

Assessment Leading to Request

In time, faculty registering students for a biology minor realize the minor curriculum designs had a high percentage of course substitutions as a means to accommodate an antiquated program. We met as a department and universally agreed that we needed to update our minor.

Anticipated Impacts to "Other" Programs

We feel an improved minor will help augment other majors. For example, many students focusing on communication enjoy taking biology classes such as "Environmental and Ecological Issues," and "Restoration Ecology." A focus on communication with a minor in biology would allow these graduates to be competitive for positions at Fish, Wildlife, and Parks. An engineering student may take courses such as "Animal Ecology," "Botany," and "Plant Ecology" to help broaden their understanding of environmental impacts. An Occupational Safety and Health student may take "Virology," and "Microbiology" to advance their lab skills and broaden their

knowledge of standard OSH courses such as "toxicology." Each of these examples exemplifies how a biology minor can be unique and supports a different major.

Impact on Library: Dr. Stella Capoccia has consulted with Scott Juskiewicz (21 Mar 2018) at the Montana Tech library to ensure needed materials and media are available. (Or No consultation is required since changes are only in the course number, course name, or course pre-requisites.)

Date to take effect: 15 August 2018

LEVEL of Request

Please indicate the type of request(s) by selecting *all that apply*:

Faculty Approvals (directly to CRC, then Faculty Senate):

- Establish a new course for the catalog (please contact the Registrar of MUS CCN information)
- Changed course: addition, deletion or change of title, credit, course number, pre-req, description, or cross listing.
- Amend an existing degree program. Making changes to programs such as adding a writing course to a major, changing the list of accepted electives or removing a requirement of a minor
- New degree certification of 29 credits or less
- Other:

Campus Approvals (must be approved by the VCAA prior to CRC submission):

- Placing a postsecondary educational program into moratorium
- Withdrawing a postsecondary educational program from moratorium
- Establishing, re-titling, terminating or revising a campus certificate of 29 credits or more
- Establishing a B.A.S./A.A./A.S. area of study
- Offering an existing postsecondary educational program via distance or online delivery
- Other: Changing the requirements of a minor

OCHE Approvals (must be approved by the VCAA and Chancellor prior to CRC submission):

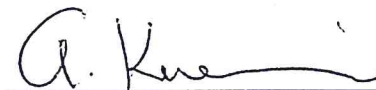
- Re-titling an existing postsecondary educational program
- Terminating an existing postsecondary educational program
- Consolidating existing postsecondary educational programs
- Establishing a new minor where there is a major or an option in a major
- Revising a postsecondary educational program
- Establishing a temporary C.A.S. or A.A.S. degree program Approval limited to 2 years
- Other:

Level II (must be approved by the VCAA and Chancellor prior to CRC submission):

- Establishing a new postsecondary educational program
- Exceeding the 120 credit maximum for baccalaureate degrees Exception to policy 301.11
- Forming, eliminating or consolidating an academic, administrative, or research unit
- Re-titling an academic, administrative, or research unit
- Other:

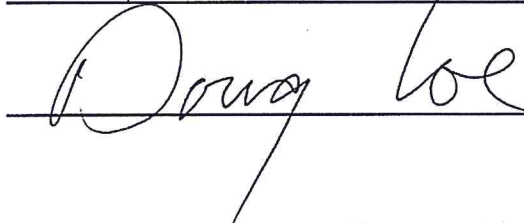
APPROVALS

Department Head Approval



Date 3/19/18

Dean Approval



Date 4/6/18

VCAAR Approval (see above)

Date _____

Chancellor Approval (see above) _____ Date _____

Graduate Council Approval _____ Date _____

CRC Approval  _____ Date 4/30/18

Faculty Senate Approval _____ Date _____

Biology Minor Existing/Antiquated

(4 credits)

- BIOB 170 Principles of Biodiversity, 4 credits
- BIOB 160 Principles of Living Systems, 3 credits
- BIOB 161 Principles of Living Systems lab, 1 credit.

(7-8 credits)

- BIOO 235 Rocky Mountain flora 3 credits
- BIOO 380 Zoology 4 credits
- BIOM 260 General Microbiology 3 credits
- BIOM 261 General Microbiology lab 1 credit
- BIOH 301/302 Human Anatomy and Physiology 1 with lab 4 credits
- BIOH 311/312 Human Anatomy and Physiology 2 with lab 4 credits
- BIOL XXXX
- BIOL XXXX

(10 credits)

- BIOB 274 Introduction to Evolution 3 credits
- BIOB 375 General genetics 3 credits
- BIOB 376 General Genetics lab 1 credit
- BIOE 455 Plant ecology 4 credits
- OR-
- BIOE 314 Animal ecology 4 credits.

A minimum of 21 credits required for a biology minor. At least 1/3 of courses being used must be upper division (300-400)

Biology Minor Revised

A minimum of 21 credits required for a biology minor. All students must take the set of introductory classes to provide a standard base of knowledge and complete the prerequisites needed to move onto advanced classes. They may then choose 13 additional credits; at least 7 of the credits must be upper division (300-400)

(8 credits)

- BIOB 170 Principles of Biodiversity, 4 credits
- BIOB 160 Principles of Living Systems, 3 credits
- BIOB 161 Principles of Living Systems lab, 1 credit.

Students may then choose 13 credits from the list of biology courses, of which a minimum of 7 credits must be 300 or above. Examples of courses include:

-
- BIOB 274 Introduction to Evolution 3 credits
 - BIOB 375 General genetics 3 credits
 - BIOB 376 General Genetics lab 1 credit
 - BIOB 410 Immunology 3 credits
 - BIOE 314 Animal ecology 4 credits.
 - BIOE 455 Plant ecology 4 credits
 - BIOH 301/302 Human Anatomy and Physiology 1 with lab 4 credits
 - BIOH 311/312 Human Anatomy and Physiology 2 with lab 4 credits
 - BIOM 260 General Microbiology 3 credits
 - BIOM 261 General Microbiology lab 1 credit
 - BIOO 235 Rocky Mountain flora 3 credits
 - BIOO 380 Zoology 4 credits

Date 2/7/18

Dept. Business and Information Tech

College CLSPS

Program: Bachelors of Science, Bachelors of Applied Science, Associate of Applied Science

Description of Request/Summary: Establish MUS course number for current special topics in personal finance.

Currently BGEN 291: proposed BFIN 205 as currently in the MUS CCN system

Current Course Program Information: BGEN 291 Special topics is currently offered in the Spring 2018 term as a distance class. We have 13 students from multiple areas of study across the Tech campus. Currently in the BIT department, this course serves as a free elective. As time permits, we will evaluate how this course may fit into existing degree programs across the institution. We expect to offer this course in the Fall of 2018 as a distance course and incorporate dual credit offerings throughout the WUE states.

Proposed Change (Attach syllabus or curriculum for new course or curriculum changes.)

Course # Name	Credits	Pre-req.
BFIN 205	3	NONE

This course addresses the fundamentals of personal financial planning. Topics will include personal budgeting, retirement planning, investment strategies, personal financial assessment, insurance, tax planning and estate planning.

This should include what will appear in the catalog, exactly.

List of supporting documentation attached:

1. Syllabus and assignments attached

Assessment Leading to Request

The growing complexity of financial decisions facing American consumers has prompted an increased emphasis by policymakers on promoting financial education at all stages of life. One group of particular concern is young adults, as they have been shown to have particularly low levels of financial literacy (Lusardi et al. 2010) and to be prone to engage in expensive credit behaviors, such as using payday loans, paying interest on credit card balances, and accruing late fees (FINRA Foundation 2013).

The 2008 financial crisis further demonstrated the need for broad-based financial education. However, the existing body of research on the effectiveness of financial literacy education has yielded limited evidence that it improves financial outcomes and behaviors (Fernandes et al. 2014; Willis 2011).

Anticipated Impacts to "Other" Programs

None

Impact on Library: NA

Date to take effect: As directed by Enrollment services, Next applicable catalog update

LEVEL of Request

Please indicate the type of request(s) by selecting *all that apply*:

Faculty Approvals (directly to CRC, then Faculty Senate):

- Establish a new course for the catalog (please contact the Registrar of MUS CCN information)
- Changed course: addition, deletion or change of title, credit, course number, pre-req, description, or cross listing.
- Amend an existing degree program. Making changes to programs such as adding a writing course to a major, changing the list of accepted electives or removing a requirement of a minor
- New degree certification of 29 credits or less
- Other:

Campus Approvals (must be approved by the VCAA prior to CRC submission):

- Placing a postsecondary educational program into moratorium
- Withdrawing a postsecondary educational program from moratorium
- Establishing, re-titling, terminating or revising a campus certificate of 29 credits or more
- Establishing a B.A.S./A.A./A.S. area of study
- Offering an existing postsecondary educational program via distance or online delivery
- Other:

OCHE Approvals (must be approved by the VCAA and Chancellor prior to CRC submission):

- Re-titling an existing postsecondary educational program
- Terminating an existing postsecondary educational program
- Consolidating existing postsecondary educational programs
- Establishing a new minor where there is a major or an option in a major
- Revising a postsecondary educational program
- Establishing a temporary C.A.S. or A.A.S. degree program Approval limited to 2 years
- Other:

Level II (must be approved by the VCAA and Chancellor prior to CRC submission):

- Establishing a new postsecondary educational program
- Exceeding the 120 credit maximum for baccalaureate degrees Exception to policy 301.11
- Forming, eliminating or consolidating an academic, administrative, or research unit
- Re-titling an academic, administrative, or research unit
- Other:

APPROVALS

Department Head Approval



Date 3/23/2018

Dean Approval

_____ Date _____

Graduate Council Approval

_____ Date _____

CRC Approval



Date 4/30/18

Faculty Senate Approval

_____ Date _____

VCAA Approval (see above)

_____ Date _____

Chancellor Approval (see above)

_____ Date _____

Protocol: The department requesting curriculum change holds a discussion at the departmental level, and if agreed upon by the department head, discuss with the Dean for approval. Forward the completed form along with supporting information to the CRC chair after approval from the department head, dean, and graduate council if necessary. Final changes are then made by the registrar after faculty senate approval. Guidance: <https://www.umt.edu/provost/faculty/curriculum/default.php>.

Date 03/27/2018

Dept. Nursing

College CLSPS – College of Letters Science and Professional Studies

Program: BSN Completion Program (Post-Licensure)

Description of Request/Summary: October 1, 2015 Montana was awarded a \$15 Million Trade Adjustment Assistance Community College and Career Training (TAACCT) 4 U.S. Department of Labor grant, to advance healthcare education access for rural/frontier communities. The grant project was titled HealthCARE MT and sought to address shortages in nursing by creating efficient educational pathways so that students can enter and exit programs quickly and gain employment. One of the specific grant deliverables was an ASN to BSN Completion program (Post- Licensure) statewide curriculum pathway to provide student options for the program.

Attached is the 48 credit course requirements for the statewide BSN Completion program (Post-Licensure).

Current Course Program Information: Montana Tech’s online Bachelor of Science in Nursing, Post Licensure Program is a 48 credit program designed to build upon the knowledge of the Associate of Science (ASN) Registered Nurse and afford them the opportunity to continue their education at a professional level. All nursing coursed in the program are offered in a distant learning/online format. The program has clinical requirements with selected courses in the program. Clinical hours are only offered in Montana; no out-of-state clinical is available.

Proposed Change (Attach syllabus or curriculum for new course or curriculum changes.)

Course #	Name	Attached	Credits	48	Pre-req.	ASN/Licensed Registered Nurse
Attached are the Course #'s, Course Name, and Course Learning Outcomes.						
This should include what will appear in the catalog, exactly.						

List of supporting documentation attached:

1. Curriculum with course #'s, course description and learning outcomes.
2. Faculty Syllabus

Assessment Leading to Request

Nursing faculty and employer partners worked to revise, define and develop new statewide common nursing education curriculum providing a seamless progression to and through the BSN Completion program. The dedicated PN, ASN, and BSN committees met regularly from January 2015 through January 2016 to create more efficient nursing education pathways while not losing nursing curriculum rigor.

Anticipated Impacts to "Other" Programs

None

Impact on Library: Karen VanDaveer, Director of Nursing has consulted with Scott Juskievicz (03/27/2018) at the Montana Tech library to ensure needed materials and media are available. (Or No consultation is required since changes are only in the course number, course name, or course pre-requisites.)

Date to take effect: Fall 2018

LEVEL of Request

Please indicate the type of request(s) by selecting *all that apply*:

Faculty Approvals (directly to CRC, then Faculty Senate):

- Establish a new course for the catalog (please contact the Registrar of MUS CCN information)
- Changed course: addition, deletion or change of title, credit, course number, pre-req, description, or cross listing.
- Amend an existing degree program. Making changes to programs such as adding a writing course to a major, changing the list of accepted electives or removing a requirement of a minor
- New degree certification of 29 credits or less
- Other:

Campus Approvals (must be approved by the VCAA prior to CRC submission):

- Placing a postsecondary educational program into moratorium
- Withdrawing a postsecondary educational program from moratorium
- Establishing, re-titling, terminating or revising a campus certificate of 29 credits or more
- Establishing a B.A.S./A.A./A.S. area of study
- Offering an existing postsecondary educational program via distance or online delivery
- Other:

OCHE Approvals (must be approved by the VCAA and Chancellor prior to CRC submission):

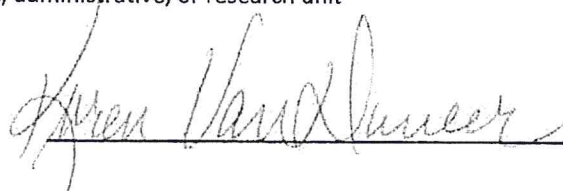
- Re-titling an existing postsecondary educational program
- Terminating an existing postsecondary educational program
- Consolidating existing postsecondary educational programs
- Establishing a new minor where there is a major or an option in a major
- Revising a postsecondary educational program
- Establishing a temporary C.A.S. or A.A.S. degree program Approval limited to 2 years
- Other:

Level II (must be approved by the VCAA and Chancellor prior to CRC submission):

- Establishing a new postsecondary educational program
- Exceeding the 120 credit maximum for baccalaureate degrees Exception to policy 301.11
- Forming, eliminating or consolidating an academic, administrative, or research unit
- Re-titling an academic, administrative, or research unit
- Other:

APPROVALS

Department Head Approval



Date

4/24/2018

Dean Approval

Date

VCAAR Approval (see above)

Date

Chancellor Approval (see above)

Date

Graduate Council Approval

Date

CRC Approval



Date

4/30/18

Faculty Senate Approval

Date

Transition of BSN Completion Curriculum to Montana State Approved Model.

CRC Approved Changes in 2017:

- Replaced NRSRG 410: Nursing Theory with NRSRG 320: Nursing Informatics.
- Replaced NRSRG 420: Research with RNSG 324: Evidence-Based Practice.
- Continues to be 33 Nursing Credits with 15 Gen Ed credits.

Changes Depart. is Seeking from CRC:

- Replace NRSRG 356: Advanced Patho with NRSRG 326: Complex Healthcare Needs.
- Replace NRSRG 309: Aging with NRSRG 322: Healthcare Promotion and Education.
- Replace NRSRG 404: Healthcare Continuum with NRSRG 361W Global Health (Writing Course)
- Replace HCI or EKG with Developmental Psych. ~~ZSD~~
- Course Number Change for Community Health: from NRSRG 306 to NRSRG 301/302.
- Increase Credits for Community Health: From 4 credits to 6 credits.
- Discontinue NRSRG 311: Trends and Issues.
- Course Number Change for Leadership and Management: from NRSRG 485W to 363/364 (no longer a writing course).
- Credit redistribution for Leadership and Management: Stays 6 credits; however, now 5 credits lecture and 1 credit clinical.

Protocol: The department requesting curriculum change holds a discussion at the departmental level, and if agreed upon by the department head, discuss with the Dean for approval. Forward the completed form along with supporting information to the CRC chair after approval from the department head, dean, and graduate council if necessary. Final changes are then made by the registrar after faculty senate approval. Guidance: <https://www.umt.edu/provost/faculty/curriculum/default.php>.

Date 02/22/18

Dept. Computer Science

College CLSPS

Program: Computer Science

Description of Request/Summary:

Change 400 level Math requirement from M 410 to M 410 OR M 426

Current Course Program Information: M 410 Numerical Computing is required

Added to agenda

Proposed Change (Attach syllabus or curriculum for new course or curriculum changes.)

Course # Name	Credits	Pre-req.
M 410 Numerical Computing	3	
or		
M 426 Mathematical Modeling	3	

List of supporting documentation attached:

1. Curriculum Worksheet with updated change

Assessment Leading to Request

M 410 quickly fills with seniors, so CS juniors are unable to register for it. This will provide an alternative course for CS students.

We noted that the Mechanical Engineering program provides several alternative 400 level math classes and we thought this would be a good idea for the CS program. Mathematical Modeling fits in well with our Computational Science and Engineering (CSE) interests and similar to Numerical Computing uses MATLAB.

Anticipated Impacts to "Other" Programs

None

Impact on Library: No consultation is required since changes are only adding an existing course to the curriculum.

Date to take effect: 8/1/18

LEVEL of Request

Please indicate the type of request(s) by selecting *all that apply*:

Faculty Approvals (directly to CRC, then Faculty Senate):

- Establish a new course for the catalog (please contact the Registrar of MUS CCN information)
- Changed course: addition, deletion or change of title, credit, course number, pre-req, description, or cross listing.
 - Amend an existing degree program. Making changes to programs such as adding a writing course to a major, changing the list of accepted electives or removing a requirement of a minor
- New degree certification of 29 credits or less
- Other:

MontanaTech

Curriculum Change Request Form Dated 8 May 2017

Campus Approvals (must be approved by the VCAA prior to CRC submission):

- Placing a postsecondary educational program into moratorium
- Withdrawing a postsecondary educational program from moratorium
- Establishing, re-titling, terminating or revising a campus certificate of 29 credits or more
- Establishing a B.A.S./A.A./A.S. area of study
- Offering an existing postsecondary educational program via distance or online delivery
- Other:

OCHE Approvals (must be approved by the VCAA and Chancellor prior to CRC submission):

- Re-titling an existing postsecondary educational program
- Terminating an existing postsecondary educational program
- Consolidating existing postsecondary educational programs
- Establishing a new minor where there is a major or an option in a major
- Revising a postsecondary educational program
- Establishing a temporary C.A.S. or A.A.S. degree program Approval limited to 2 years
- Other:

Level II (must be approved by the VCAA and Chancellor prior to CRC submission):


- Establishing a new postsecondary educational program
- Exceeding the 120 credit maximum for baccalaureate degrees Exception to policy 301.11
- Forming, eliminating or consolidating an academic, administrative, or research unit
- Re-titling an academic, administrative, or research unit
- Other:

APPROVALS

Department Head Approval _____ Michele Van Dyne _____ Date 2/26/18

Dean Approval _____ Date _____

Graduate Council Approval _____ Date _____

CRC Approval _____  _____ Date 4/30/18

Faculty Senate Approval _____ Date _____

VCAA Approval (see above) _____ Date _____

Chancellor Approval (see above) _____ Date _____

MontanaTech

Curriculum Change Request Form Dated 8 May 2017

Protocol: The department requesting curriculum change holds a discussion at the departmental level, and if agreed upon by the department head, discuss with the Dean for approval. Forward the completed form along with supporting information to the CRC chair after approval from the department head, dean, and graduate council if necessary. Final changes are then made by the registrar after faculty senate approval. Guidance: <https://www.umt.edu/provost/faculty/curriculum/default.php>.

Date 03/26/2018

Dept. HQ

College CLSPS

Program: Healthcare Informatics

Description of Request/ Summary:

The HQ Dept. wishes to both add and remove courses in our degree focus areas for Computer Science, Business, and Information Technology. This request is due to courses which are not currently offered at Montana Tech, and courses that have been added or had course number changes. This will also allow our students more flexibility in course options at the appropriate level in the focus area.

Current Course Program Information:

For the B.S. degree, students may focus in either Computer Science, Business, or Information Technology

Computer Science Focus	Business Focus	Information Technology Focus
CSCI 124 Advanced C#.net	BMGT 335W Mgt and Org	ITS 356 Health Info Networking
Either CSCI 311, or 340	BMGT 353W Org Behavior or BMGT 322 Operations Mngt (course sub) or	ITS 280 Computer Repair
Either BGMT 335W or 353W	BGEN 285 Critical Thinking & Decision Making	Either BGMT 335W or 353W OR
	Either CSCI 124, 311, or 340	CSCI 124, 311, or 340

Proposed Change (Attach syllabus or curriculum for new course or curriculum changes.)

*** Changes are in Green

Course # Name	Credits	Pre-req.
See Below		
= For the B.S. degree, students may focus in either Computer Science, Business, or Information Technology		
Computer Science Focus	Business Focus	Information Technology Focus
Take two of the following	Take two of the following	Take two of the following
CSCI 124 Advanced C#.NET, CSCI 311 Data Driven Web Applications, CSCI 340 Database Design	BGEN 285 Critical Thinking & Decision Making, BMGT 335W Mgt and Org, BMGT 322 Operations Mgt, BMGT 362 Labor Relats & Collective Barg, BMGT 329 HR Mgt	ITS 356 Health Info Networking, ITS 280 Computer Repair, CAPP 270 Oracle
Take one of the following	Take one of the following	Take one of the following
BGMT 335W, BMGT 322, BMGT 362, BMGT 329, BGEN 285, ITS 356, ITS 280, CAPP 270	CSCI 124, CSCI 311, CSCI 340, ITS 356, ITS 280, CAPP 270	BGMT 335W, BMGT 322, BMGT 362, BMGT 329, BGEN 285, CSCI 124, CSCI 311, CSCI 340

List of supporting documentation attached:

1. Curriculum Worksheet
 - a. Old Curriculum
 - b. New Curriculum

Assessment Leading to Request

This was discussed with our IAB based upon current industry standards. The IAB agreed, and approved this suggested curriculum change. When the course descriptions and numberings changed for many of the courses that had been offered changed there were courses created, and old courses eliminated. The assessment resulted in providing additional options within the focus areas for our students to select.

Anticipated Impact "Other" Program

No Anticipated Impact

Impact on Library: No Impact

has consulted with N/A at the Montana Tech library to ensure needed materials and media are available. (Or No consultation is required since changes are only in the course number, course name, or course pre-requisites.)

Date to take effect: As soon as approved

LEVEL of Request

Please indicate the type of request(s) by selecting all that apply:

Faculty Approvals (directly to CRC, then Faculty Senate):

- Establish a new course for the catalog (please contact the Registrar of MUSCCN information)
- X Changed course: addition, deletion or change of title, credit, course number, pre-req, description, or crosslisting.
- X Amend an existing degree program. Making changes to programs such as adding a writing course to a major, changing the list of accepted electives or removing a requirement of a minor
- New degree certification of 29 credits or less
- Other:

Campus Approvals (must be approved by the VCAA prior to CRC submission):

- Placing a postsecondary educational program into moratorium
- Withdrawing a postsecondary educational program from moratorium
- Establishing, re-titling, terminating or revising a campus certificate of 29 credits or more
- Establishing a B.A.S./A.A./A.S area of study
- Offering an existing postsecondary educational program via distance or online delivery
- Other:

OCHE Approvals (must be approved by the VCAA and Chancellor prior to CRC submission):

- Re-titling an existing postsecondary educational program
- Terminating an existing postsecondary educational program
- Consolidating existing postsecondary educational programs
- Establishing a new minor where there is a major or an option in a major
- Revising a postsecondary educational program
- Establishing a temporary C.A.S or A.A.S degree program Approval limited to 2 years
- Other:

Level II (must be approved by the VCAA and Chancellor prior to CRC submission):

- Establishing a new postsecondary educational program
- Exceeding the 120 credit maximum for baccalaureate degrees Exception to policy 301.11
- Forming, eliminating or consolidating an academic, administrative, or research unit
- Re-titling an academic, administrative, or research unit
- Other:

APPROVALS

Department Head Approval _____ Date _____

Dean Approval _____ Date _____

Graduate Council Approval _____ Date _____

CRC Approval _____ Date _____



Faculty Senate Approval _____ Date _____

VCAA Approval (see above) _____ Date _____

Chancellor Approval (see above) _____ Date _____

MontanaTech

Curriculum Change Request Form Dated 8 May 2017

Protocol: The department requesting curriculum change holds a discussion at the departmental level, and if agreed upon by the department head, discuss with the Dean for approval. Forward the completed form along with supporting information to the CRC chair after approval from the department head, dean, and graduate council if necessary. Final changes are then made by the registrar after faculty senate approval. Guidance: <https://www.umd.edu/provost/faculty/curriculum/default.php>.

Date 03/26/2018

Dept. HCI College CLSPS

Program: Healthcare Informatics

Description of Request/ Summary:

The HCI Dept. wishes to remove an option for our students CSCI 347 Data Mining. There is another option currently listed in the curriculum, HCI 440 Data Integration and Exchange which is appropriate for the degree specialization. In addition, when the course descriptions and numberings changed for many of the CSCI courses our students no longer take all the required pre-requisites for CSCI 347.

Current Course Program Information:

Current Curriculum: CSCI 347 or HCI 440

Proposed Change (Attach syllabus or curriculum for new course or curriculum changes.)

Course # Name	Credits	Pre-req.
HCI 440 Data Integration and Exchange	3	

List of supporting documentation attached:

1. Curriculum Worksheet
 - a. Old Curriculum
 - b. New Curriculum

Assessment Leading to Request

This was discussed with our IAB based upon current industry standards. The IAB agreed, and approved this suggested curriculum change. When the course descriptions and numberings changed for many of the CSCI courses our students no longer take all the required pre-requisites for CSCI 347.

Anticipated Impact "Other" Program

No Anticipated Impact

Impact on Library: No Impact

has consulted with N/A at the Montana Tech library to ensure needed materials and media are available. (Or No consultation is required since changes are only in the course number, course name, or course pre-requisites.)

Date to take effect: As soon as approved

LEVEL of Request

Please indicate the type of request(s) by selecting all that apply:

Faculty Approvals (directly to CRC, then Faculty Senate):

- Establish a new course for the catalog (please contact the Registrar of MUSCCN information)
- Changed course: addition, deletion or change of title, credit, course number, pre-req, description, or crosslisting.
- Amend an existing degree program. Making changes to programs such as adding a writing course to a major, changing the list of accepted electives or removing a requirement of a minor
- New degree certification of 29 credits or less

Other:

Campus Approvals (must be approved by the VCAA prior to CRC submission):

- Placing a postsecondary educational program into moratorium
- Withdrawing a postsecondary educational program from moratorium.
- Establishing, re-titling, terminating or revising a campus certificate of 29 credits or more
- Establishing a B.A.S./A.A./A.S area of study
- Offering an existing postsecondary educational program via distance or online delivery
- Other:

OCHE Approvals (must be approved by the VCAA and Chancellor prior to CRC submission):

- Re-titling an existing postsecondary educational program
- Terminating an existing postsecondary educational program
- Consolidating existing postsecondary educational programs
- Establishing a new minor where there is a major or an option in a major
- Revising a postsecondary educational program
- Establishing a temporary C.A.S or A.A.S degree program Approval limited to 2 years
- Other:

Level II (must be approved by the VCAA and Chancellor prior to CRC submission):

- Establishing a new postsecondary educational program
- Exceeding the 120 credit maximum for baccalaureate degrees Exception to policy 301.11
- Forming, eliminating or consolidating an academic, administrative, or research unit
- Re-titling an academic, administrative, or research unit
- Other:

APPROVALS

Department Head Approval _____ Date _____

Dean Approval _____ Date _____

Graduate Council Approval _____ Date _____

CRC Approval  _____ Date _____

Faculty Senate Approval _____ Date _____

VCAA Approval (see above) _____ Date _____

Chancellor Approval (see above) _____ Date _____

MontanaTech

Curriculum Change Request Form Dated 8 May 2017

Protocol: The department requesting curriculum change holds a discussion at the departmental level, and if agreed upon by the department head, discuss with the Dean for approval. Forward the completed form along with supporting information to the CRC chair after approval from the department head, dean, and graduate council if necessary. Final changes are then made by the registrar after faculty senate approval. Guidance: <https://www.umt.edu/provost/faculty/curriculum/default.php>.

Date 03/26/2018

Dept. HCI College CLSPS

Program: Healthcare Informatics

Description of Request/ Summary:

The HCI Dept wishes to add an option for our students to take either BMIS375 Business Modeling w/ access (Currently in curriculum junior year) or BMIS311 Business Management Systems (request to add). This will provide students with the choice to choose between business courses.

Current Course Program Information:

Current Curriculum: BMIS375 Business Modeling w/ Access

Proposed Change (Attach syllabus or curriculum for new course or curriculum changes.)

Course # Name	Credits	Pre-req.
BMIS311 Business Management Systems	3	
OR Bmis 375		

List of supporting documentation attached:

1. Curriculum Worksheet
 - a. Old Curriculum
 - b. New Curriculum

Assessment Leading to Request

This will provide students the option to choose between two different Junior level business courses. This was discussed with our IAB based upon current industry standards. The IAB agreed, and approved this suggested curriculum change.

Anticipated Impact "Other" Program

No Anticipated Impact

Impact on Library: No Impact

has consulted with N/A at the Montana Tech library to ensure needed materials and media are available. (Or No consultation is required since changes are only in the course number, course name, or course pre-requisites.)

Date to take effect: As soon as approved

LEVEL of Request

Please indicate the type of request(s) by selecting all that apply:

Faculty Approvals (directly to CRC, then Faculty Senate):

- Establish a new course for the catalog (please contact the Registrar of MUSCON information)
- X Changed course: addition, deletion or change of title, credit, course number, pre-req, description, or crosslisting.
- X Amend an existing degree program. Making changes to programs such as adding a writing course to a major, changing the list of accepted electives or removing a requirement of a minor
- New degree certification of 29 credits or less
- Other:

Campus Approvals (must be approved by the VCAA prior to CRC submission):

MontanaTech

Curriculum Change Request Form Dated 8 May 2017

- Placing a postsecondary educational program into moratorium
- Withdrawing a postsecondary educational program from moratorium
- Establishing, re-titling, terminating or revising a campus certificate of 29 credits or more
- Establishing a B.A.S./A.A./A.S area of study
- Offering an existing postsecondary educational program via distance or online delivery
- Other:

OCHE Approvals (must be approved by the VCAA and Chancellor prior to CRC submission):

- Re-titling an existing postsecondary educational program
- Terminating an existing postsecondary educational program
- Consolidating existing postsecondary educational programs
- Establishing a new minor where there is a major or an option in a major
- Revising a postsecondary educational program
- Establishing a temporary C.A.S or A.A.S degree program Approval limited to 2 years
- Other:

Level II (must be approved by the VCAA and Chancellor prior to CRC submission):

- Establishing a new postsecondary educational program
- Exceeding the 120 credit maximum for baccalaureate degrees Exception to policy 301.11
- Forming, eliminating or consolidating an academic, administrative, or research unit
- Re-titling an academic, administrative, or research unit
- Other:

APPROVALS

Department Head Approval _____ Date _____

Dean Approval _____ Date _____

Graduate Council Approval _____ Date _____

CRC Approval  _____ Date 4/30/18

Faculty Senate Approval _____ Date _____

VCAA Approval (see above) _____ Date _____

Chancellor Approval (see above) _____ Date _____