Montana University System

PROGRAM REVIEW

Institution: **Montana Tech of the University of Montana**

Program Years: **2014-2015**

List of the programs reviewed:

- Bachelor of Science in Business and Information Technology
- Bachelor of Applied Science in Business
- Associate of Applied Science and Certificate of Applied Science in Construction Technology
- Associate of Applied Science and Certificate of Applied Science in Energy Technology-Wind
- Bachelor of Science and Master of Science in Environmental Engineering
- Bachelor of Science in Metallurgical/Materials Engineering and Master of Science in Metallurgical/Mineral Process Engineering
- Certificate of Applied Science-Office Assistant

Decision(s) concerning the future of the program(s), based on the program review criteria established at the campus:

See the attached detailed individual Program Review summaries.

Rationale or justification for the decision based on the program review process established at the campus. Include graduation numbers and student majors for each of the last seven (7) years for every program under review.

See the attached individual Program Review summaries.

Montana University System

PROGRAM REVIEW

Institution: **Montana Tech of The University of Montana**

Program Years: **2009-2015**

List of the programs reviewed:

Bachelor of Science in Business and Information Technology (BIT)

Decision(s) concerning the future of the program(s), based on the program review criteria established at the campus:

Retain the Business and Information Technology BS

Rationale or justification for the decision based on the program review process established at the campus. Include graduation numbers and student majors for each of the last seven (7) years for every program under review.

- The BIT program is one of Montana Tech's largest programs. It is the largest program in the College of Letters, Sciences, and Professional Studies.
- The Board of Regents approved a new option, Natural Resource Management, within the BIT program earlier in 2015. The campus believes this new option will complement the current options in Business Information Systems, Management, Health Information Technology, and Marketing. The Natural Resource Management option will focus on Petroleum Land Management and thus will support our largest degree program, Petroleum Engineering.
- The School of Law at UM-Missoula is interested in cross-listing our courses in Oil and Gas Law as elective courses for their law students. Collaborative opportunities such as this exist with other schools in the state.

Majors	Fall 2009	Fall 2010	Fall 2011	Fall 2012	Fall 2013	Fall 2014	Fall 2015
BIT	187	157	140	120	117	128	129

Graduates	AY 08-09	AY 09-10	AY 10-11	AY 11-12	AY 12-13	AY 13-14	AY 14-15
BIT	21	31	45	29	31	21	19

Montana University System

PROGRAM REVIEW

Institution: **Montana Tech of The University of Montana**

Program Years: **2009-2015**

List of the programs reviewed:

Bachelor of Applied Science (BAS) in Business

Decision(s) concerning the future of the program(s), based on the program review criteria established at the campus:

Retain the BAS in Business

Rationale or justification for the decision based on the program review process established at the campus. Include graduation numbers and student majors for each of the last seven (7) years for every program under review.

- The BAS degree supports Montana Tech's agreement with Helena College to offer our four-year degree in Helena so that place-bound Helena residents have access to a face-to-face, state supported four year Business program.
- The BAS in Business is the largest program at Montana Tech in which two-year graduates are able to continue their schooling directly out of a two-year program into a four-year program. A large percentage of the students enrolled in the BAS program are graduates of Highlands College.
- The BAS in Business allows a large number of Southwest Montana students to continue their education in Business while continuing to live in Southwest Montana.
- The BAS in Business has seen strong enrollment and graduation numbers for the past seven years.

Majors	Fall 2009	Fall 2010	Fall 2011	Fall 2012	Fall 2013	Fall 2014	Fall 2015
BAS-Business	28	34	30	40	40	38	34

Graduates	AY 08-09	AY 09-10	AY 10-11	AY 11-12	AY 12-13	AY 13-14	AY 14-15
BAS-Business	13	8	14	6	14	11	18

Montana University System

PROGRAM REVIEW

Institution: **Montana Tech of The University of Montana**

Program Years: **2009-2015**

List of the programs reviewed:

Associate of Applied Science (AAS) in Construction Technology-Carpentry

Certificate of Applied Science (CAS) in Construction Technology-Carpentry

Decision(s) concerning the future of the program(s), based on the program review criteria established at the campus:

Retain all degrees.

Rationale or justification for the decision based on the program review process established at the campus. Include graduation numbers and student majors for each of the last seven (7) years for every program under review.

- The construction industry has taken a major hit in the recession of the past few years. The way that Montana Tech/Highlands College maintained enrollment in that major was by convincing students interested in welding or machining (but who could not get into those programs because they were full) to enter the construction major and thereby be "next in line" to enter welding or machining. With data from Montana's Department of Labor and Statistics and the general positive turnaround of the economy, we can discern that construction is making a comeback. With its active and engaged program, Construction is prepared to ride that comeback wave and enroll and graduate successful students.

Majors	Fall 2009	Fall 2010	Fall 2011	Fall 2012	Fall 2013	Fall 2014	Fall 2015
Const. Tech-Carpentry	14	20	14	9	12	10	14

Graduates	AY 08-09	AY 09-10	AY 10-11	AY 11-12	AY 12-13	AY 13-14	AY 14-15
Const. Tech-Carpentry	3	2	5	5	1	5	1

Montana University System

PROGRAM REVIEW

Institution: **Montana Tech of The University of Montana**

Program Years: **2009-2015**

List of the programs reviewed:

Associate of Applied Science (AAS) in Energy Technology - Wind

Certificate of Applied Science (CAS) in Energy Technology - Wind

Decision(s) concerning the future of the program(s), based on the program review criteria established at the campus:

Place into moratorium status. The paperwork is being prepared and will be submitted for the next Board of Regents meeting.

Rationale or justification for the decision based on the program review process established at the campus. Include graduation numbers and student majors for each of the last seven (7) years for every program under review.

- With the rise in activity in the Bakken oil field, interest in our Wind Energy program waned and the number of enrolled students plummeted.
- With the RevUP Grant, Montana Tech came to understand that the "in demand" fields were those in the RevUp Grant including welding, machining, etc. As a result, we "pivoted" to support those areas.
- Most of the equipment utilized in the SET Wind Program is now being utilized in other of our Trades & Technical programs.

Majors	Fall 2009	Fall 2010	Fall 2011	Fall 2012	Fall 2013	Fall 2014	Fall 2015
AAS Energy Tech	0	0	9	11	6	4	1
CAS Energy Tech	6	22	19	14	6	0	0

Graduates	AY 08-09	AY 09-10	AY 10-11	AY 11-12	AY 12-13	AY 13-14	AY 14-15
AAS Energy Tech	0	0	2	3	8	3	2
CAS Energy Tech	0	0	0	0	0	1	0

Montana University System

PROGRAM REVIEW

Institution: **Montana Tech of The University of Montana**

Program Years: **2009-2015**

List of the programs reviewed:

Environmental Engineering, BS and MS

Decision(s) concerning the future of the program(s), based on the program review criteria established at the campus:

Retain the Bachelor of Science and Masters of Science in Environmental Engineering degrees.

Rationale or justification for the decision based on the program review process established at the campus. Include graduation numbers and student majors for each of the last seven (7) years for every program under review.

- The Environmental Engineering program at Montana Tech is the second oldest Environmental Engineering program in the United States and is one of our "Hallmark" programs.
- These programs directly support Montana Tech's Mission Statement.
- Graduates from the Bachelor's and Master's programs are employed primarily on the corporate side in comparison to graduates in environmental sciences (and similar programs) that go to work primarily in the regulation side of things.
- The drop in enrollment in the Bachelors program (see below) is directly attributable to the implementation of the Freshman Engineering program.

Majors	Fall 2009	Fall 2010	Fall 2011	Fall 2012	Fall 2013	Fall 2014	Fall 2015
BS – Env. Eng.	75	80	79	77	71	49	45
MS – Env. Eng.	6	6	4	11	13	10	7

Graduates	AY 08-09	AY 09-10	AY 10-11	AY 11-12	AY 12-13	AY 13-14	AY 14-15
BS – Env. Eng.	17	9	13	10	12	24	13
MS – Env. Eng.	0	2	3	1	1	5	6

Montana University System

PROGRAM REVIEW

Institution: **Montana Tech of The University of Montana**

Program Years: **2009-2015**

List of the programs reviewed:

Bachelor of Science in Metallurgical/Materials Engineering

Masters of Science in Metallurgical/ Mineral Process Engineering

Decision(s) concerning the future of the program(s), based on the program review criteria established at the campus:

Retain the degrees.

Rationale or justification for the decision based on the program review process established at the campus. Include graduation numbers and student majors for each of the last seven (7) years for every program under review.

- The Bachelor's and Master's degrees in Metallurgical/Materials/Mineral Processing Engineering support Montana Tech's Mission Statement, Strategic Plan, as well as the MUS's Strategic Plan.
- Montana Tech has one of the four Metallurgical Engineering degrees in the United States.
- Faculty in this department support the PhD in Materials Science, which currently has nine students enrolled.
- This is one of Montana Tech's Heritage programs with solid enrollment and graduation numbers.

Majors	Fall 2009	Fall 2010	Fall 2011	Fall 2012	Fall 2013	Fall 2014	Fall 2015
BS – Met/Mat. Eng.	53	52	49	42	48	45	51
MS – Met/MP Eng.	8	7	4	9	12	12	8

Graduates	AY 08-09	AY 09-10	AY 10-11	AY 11-12	AY 12-13	AY 13-14	AY 14-15
BS – Met/Mat. Eng.	4	6	5	10	11	4	7
MS – Met/MP	1	2	5	1	2	2	8

Eng.							

Montana University System

PROGRAM REVIEW

Institution: **Montana Tech of The University of Montana**

Program Years: **2009-2015**

List of the programs reviewed:

Certificate of Applied Science – Office Assistant

Decision(s) concerning the future of the program(s), based on the program review criteria established at the campus:

Terminate this program and remove it from our degree inventory.

Rationale or justification for the decision based on the program review process established at the campus. Include graduation numbers and student majors for each of the last seven (7) years for every program under review.

- Montana Tech has not had students in this program in the past 10 years.