Montana University System

Institution: **Montana Technological University**

Program Years: **2012-2018**

List of the programs reviewed:

- Business Technology

- Applied Health and Safety Science

- Liberal Studies

- Industrial Hygiene

- Network Technology

- Occupational Safety/Health

SEE INDIVIDUAL REPORTS FOR ACTIONS AND JUSTIFICATION FOLLOWING EACH PROGRAM REVIEW

Montana University System

Institution: **Montana Technological University**

Program Years: **2018-2019**

List of the programs reviewed:

- Business Technology (AAS)

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

Retain the degree/options.

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.

Although the Business Technology Department options have seen dramatic drops in the number of degrees that have been earned, I believe that with some additions and changes to current curriculum that we can see our numbers rise. I think that more marketing needs to be done, and I believe that we need to offer non-credit coursework, to work more closely with our labor force, and to implement a one-year certificate in medical coding and billing. In addition, we are working with the Montana Department of Labor and Industry trying to implement an apprenticeship program.

	52.0401 AAS Business Technology	
	Fall Enrollment	Number of Degrees
2013-2014	27	7
2014-2015	20	3
2015-2016	19	5
2016-2017	24	2
2017-2018	13	6
2018-2019	10	3
2019-2020	7	

Montana University System

PROGRAM REVIEW

Institution: **Montana Technological University**

Program Years: **2018-2019**

List of the programs reviewed:
Applied Health and Safety Science (BS)

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

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.

This program has had relatively steady enrollment growth. Nationally, programs that have an exercise science/kinesiology focus have had very strong growth. Based upon the national trends and some forthcoming curricular changes, It is anticipated that student interest in this program at Montana Tech will grow with a concomitant growth in enrollment.

	51.0001 BS Applied Hlth & Safety Sciences	
	Fall Enrollment	Number of Degrees
2013-2014		
2014-2015		
2015-2016	6	1
2016-2017	18	2
2017-2018	28	5
2018-2019	33	6
2019-2020	36	

Program Review | Page 1 of 2

Montana University System
PROGRAM REVIEW

Institution: **Montana Technological University**

Program Years: **2018-2019**

List of the programs reviewed:

Liberal Studies (BS) renamed in 2017 Interdisciplinary Arts and Science (BS)

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

Item # 176-1500-LI0917 in September 2017 Level I submission renamed BS Liberal Studies to BS Interdisciplinary Arts and Sciences.

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.

This program provides all of the social science and humanities courses required to meet general education and institutional accreditation requirements. The degrees in this program provide a critical path toward graduation for those students who are not focused on obtaining a degree in a traditional science and engineering field. This program also provides an accessible degree for students who have accumulated credits in different academic areas.

	24.0101 BS Liberal Studies 24.0101 BS Interdisciplinary Arts Sci	
	Fall Enrollment	Number of Degrees
2013-2014	72	12
2014-2015	52	6
2015-2016	37	8
2016-2017	29	3
2017-2018	24	2
2018-2019	29	3
2019-2020	19	

Program Review | Page 2 of 2

Montana University System

Institution: **Montana Technological University**

Program Years: **2018-2019**

List of the programs reviewed:

Industrial Hygiene (MS):

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

Retain the MS in Industrial Hygiene.

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.

	51.2206 MS Industrial Hygiene	
	Fall Enrollment	Number of Degrees
2013-2014	13	5
2014-2015	15	3
2015-2016	14	8
2016-2017	9	3
2017-2018	17	2
2018-2019	15	8
2019-2020	9	

- The MS in Industrial Hygiene is an on-campus, thesis-based program that strongly supports Montana Tech's mission and strategic plan by providing research-based graduate education in industrial hygiene, supporting the safe development and use of natural resources. The program enables and supports the students' professional advancement and the advancement of knowledge in industrial hygiene and occupational safety—especially related to high-hazard industries associated with the development and use of natural resources.
- The MSIH is ABET accredited, and has enrollment in the top 50% of graduate programs at Tech with high retention and completion rates.

Montana University System
PROGRAM REVIEW

Institution: **Montana Technological University**

Program Years: **2018-2019**

List of the programs reviewed:

MS Industrial Hygiene Distance Learning/Professional Track

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

Retain the MS Industrial Hygiene Distance Learning/Professional Track (MSIHP)

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.

	51.2206 MS IH Distance Learn Prof Track	
	Fall Enrollment	Number of Degrees
2013-2014	57	6
2014-2015	67	13
2015-2016	81	29
2016-2017	75	16
2017-2018	88	17
2018-2019	104	35
2019-2020	102	

- The MSIHP strongly supports Montana Technological University's mission and strategic plan by bringing graduate education in industrial hygiene to working professionals, thereby enabling and supporting their professional advancement and acquisition of up-to-date technical knowledge and skills to anticipate, recognize, evaluate, and control occupational health hazards in any workplace and industry—especially those high-hazard industries associated with the development and use of natural resources.
- The MSIHP is nationally ranked, ABET accredited, and is the highest enrollment graduate program at Montana Tech.
- Enrollment of working professionals taking one to two courses per term continues to be strong and growing.
- Annual completions have increased to 20% to 34 % of head-count enrollment, due to changing the "capstone" to a comprehensive exam from a project, which proved not surprisingly to be logistically difficult to complete for distant students working full time. A student taking one course at a time would be expected to take 12 terms (4 years, including summer) to complete this 37-credit curriculum.

Montana University System
PROGRAM REVIEW

Institution: **Montana Technological University**

Program Years: **2018-2019**

List of the programs reviewed:

Network Technology (CAS)

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

This Certificate of Applied Science should be eliminated.

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 Certificate of Applied Science made sense in the beginning days of the AAS Network Technology degree. It was implemented for students who took Cisco Academy course work in High School, but were enrolling in other degree areas at Montana Tech. With a few more IT related classes, the student would have a good foundation in Network Operations.

High Schools have abandoned the Cisco Academy coursework for numerous reasons, so students are not entering Montana Tech with the Cisco CCNA courswork already completed.

	11.0901 CAS Network Technology	
	Fall Enrollment	Number of Degrees
2013-2014	0	0
2014-2015	0	0
2015-2016	0	0
2016-2017	0	0
2017-2018	0	0
2018-2019	0	0
2019-2020	0	

Montana University System

Institution: **Montana Technological University**

Program Years: **2018-2019**

List of the programs reviewed:

Network Technology (AAS) renamed in 2019 Computer Networks and Cybersecurity (AAS)

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

Item # 183-1502-L10419 in the April 2019 Level I submission renamed the AAS Network Technology degree program to AAS Computer Networks and Cybersecurity. Continue the degree offering

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.

Changing the name of the AAS degree capped our effort of remodeling this degree. We have added coursework in support of our application to the National Security Agency and the Department of Homeland Security as a center of Academic Excellence.

 This employment field is in the top 15 of the fastest growing detailed occupations requiring post-secondary education.

It is important to note that the reason the Number of Degrees is well below the Enrollment, is that most of our students continue on to the BS Network Technology degree and do not apply for the AAS degree. This will change immediately as the new name of the AAS degree is now different than the BS degree.

	11.0901 AAS Network Technology 11.1003 AAS Comp Net & Cyber Security	
	Fall Enrollment	Number of Degrees
2013-2014	31	3
2014-2015	17	4
2015-2016	22	0
2016-2017	21	2
2017-2018	19	1
2018-2019	16	2
2019-2020	14	

Montana University System

PROGRAM REVIEW

Institution: **Montana Technological University**

Program Years: **2018-2019**

List of the programs reviewed:

Network Technology (BS)

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

Retain the degree

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 BS Network Technology degree has remained steady in it's enrollment while most degrees are falling in enrollment. We are now examining required knowledge units, etc. to move the BS degree deeper into the Cyber Defense/Information Assurance realm.

	11.0901 BS Network Technology	
	Fall Enrollment	Number of Degrees
2013-2014	27	11
2014-2015	23	8
2015-2016	19	4
2016-2017	15	4
2017-2018	16	7
2018-2019	19	8
2019-2020	17	

Montana University System

Institution: **Montana Technological University**

Program Years: **2018-2019**

List of the programs reviewed:
        Web Development/Admin (AAS)

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

Retain for now, with continual review.

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.

Number of Declared majors has always been low in this degree area, however, up until now, class sizes have been acceptable. Many students find the individual classes that constitute the degree valuable. Many Network Technology students enroll in the classes as well students from other areas.

This year we are discussing moving all of the core classes to on-line offereings, hoping to boost enrollment.

	11.1004 AAS Web Development & Administr.	
	Fall Enrollment	Number of Degrees
2013-2014	5	0
2014-2015	2	3
2015-2016	2	2
2016-2017	6	2
2017-2018	3	3
2018-2019	2	2
2019-2020	3	

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Institution: **Montana Technological University**

Program Years: **2018-2019**

List of the programs reviewed:

Occupational Safety/Health (BS)

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

The BS in OSH should be continued.

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 OSH is an excellent program at Tech and fits Tech's special focus designation. It has healthy and sustained enrollment. The program is accredited by the Accreditation Board for Engineering and Technology (ABET) which is the highest accreditation standard available. Job placement is excellent with most graduates taking employment with high-quality engineering companies. And, the faculty are highly qualified and very pedagogically active.

	51.2206 BS OCC Safety & Health	
	Fall Enrollment	Number of Degrees
2013-2014	96	13
2014-2015	119	22
2015-2016	132	24
2016-2017	129	40
2017-2018	113	32
2018-2019	101	25
2019-2020	96	