Montana University System

PROGRAM REVIEW

Institution: **Montana Technological University**

Program Years: **2024-2025**

List of the programs reviewed:

Cybersecurity and Network Administration (BS)

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

The program will continue, supported by growth, new faculty and a curriculum redesign.

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 program was renamed and has grown since then in enrollment. There is an established need for cybersecurity and networking graduates.

	Cybersecurity and Network Administration (BS)		Network Technology (BS)	
	Fall Enrollment	Number of Degrees	Fall Enrollment	Number of Degrees
2018-2019			19	8
2019-2020			17	5
2020-2021	3	1	15	2
2021-2022	19	5	10	2
2022-2023	31	7	3	
2023-2024	35	8		1
2024-2025	34	13		

Montana University System

PROGRAM REVIEW

Institution: **Montana Technological University**

Program Years: **2024-2025**

List of the programs reviewed:

Computer Networks and Cybersecurity (AAS)

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

The program will continue, supported by growth, new faculty and a curriculum redesign. This associate is also part of a 2+2 program with the above four-year degree which accounts for low degree numbers.

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 program has maintained steady enrollment since the degree change, and the classes taken by these students also include students who sign up directly for the four-year program, so class sizes have increased.

	Computer Networks and Cybersecurity (AAS)		Network Technology (AAS)	
	Fall Enrollment	Number of Degrees	Fall Enrollment	Number of Degrees
2018-2019			16	2
2019-2020	1	2	13	1
2020-2021	12	1		1
2021-2022	12	4		
2022-2023	13	1		
2023-2024	12	1		
2024-2025	15	6		

Institution: **Montana Technological University**

Program Years: **2024-2025**

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:

This program will remain, and a new curriculum will be in place next academic year.

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.

While the numbers are small, there are currently additional students who double major in the cybersecurity and networking A.A.S. Faculty in computer science, cybersecurity and networking teach the courses in the program.

	Web Development/Admin (AAS)	
	Fall Enrollment	Number of Degrees
2018-2019	2	2
2019-2020	3	
2020-2021	5	1
2021-2022	4	2
2022-2023	3	
2023-2024	6	2
2024-2025	1	2

Institution: **Montana Technological University**

Program Years: **2024-2025**

List of the programs reviewed:

Exercise and Health Science (BS)

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

This program should be retained and supported by the institution.

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.

Enrollment in Exercise and Health Sciences has tripled since the name and curriculum changed in 2020 and shifted from the School of Mines and Engineering (now the Lance College of Mines and Engineering) to the College of Letters, Sciences, and Professional Studies. These changes were driven by Program Prioritization and resulted in better alignment with students' interests in sciences degrees and progression to professional health programs. We anticipate enrollment will continue to increase in parallel with increasing enrollment at Montana Tech.

BOR ITEM #186-1503-LI0120 Request authorization to change the name of the B.S. in Applied Health to a B.S. in Exercise and Health Science

	Exercise and Health Science (BS)		Applied Hlth & Safety Sciences (BS)	
	Fall Enrollment	Number of Degrees	Fall Enrollment	Number of Degrees
2018-2019			33	6
2019-2020			36	4
2020-2021	13	5	34	5
2021-2022	43	2	16	2
2022-2023	69	12	8	2
2023-2024	84	10		
2024-2025	93	18		

Institution: **Montana Technological University**

Program Years: **2024-2025**

List of the programs reviewed:

Interdisciplinary Arts and Sciences (BS)

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

This program should be retained.

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.

IAS provides all social science and humanities courses that meet the general education requirements of the MUS and institutional NWCCU accreditation parameters. This program provides a critical path toward graduation for students who are not focused on obtaining a degree in traditional science and engineering fields or have broader academic interest. The BS in IAS also can be tailored to individual students and provides an accessible degree for students who have accumulated credits in different academic areas. Moreover, we predict humanities and social sciences will begin to regain prominence in higher education as the AI era continues to unfold.

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

	Interdisciplinary Arts and Sciences (BS)		Liberal Studies (BS)	
	Fall Enrollment	Number of Degrees	Fall Enrollment	Number of Degrees
2018-2019	12	1	17	2
2019-2020	16	2	3	1
2020-2021	21	3	1	
2021-2022	23	4		
2022-2023	19	3		
2023-2024	26	6		
2024-2025	23	6		

Institution: **Montana Technological University**

Program Years: **2024-2025**

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:

This program should be retained.

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 B.S. degree is housed in the Lance College of Mines and Engineering. Program graduates apply science and technology to anticipate, recognize, evaluate and control safety hazards in the workplace. The program is accredited by the Applied and Natural Sciences Accreditation Commission (ANSAC) of ABET, which is the highest accreditation standard available. Job placement is excellent with most graduates taking employment within petroleum, construction, mining, manufacturing, and insurance industries. Ten to 20% of students continue their studies in our MS Industrial Hygiene graduate programs. The faculty are highly qualified and engaged. The department is focusing on degree program growth through several initiatives.

	Occupational Safety/Health (BS)	
	Fall Enrollment	Number of Degrees
2018-2019	101	25
2019-2020	96	32
2020-2021	77	16
2021-2022	74	20
2022-2023	61	20
2023-2024	58	20
2024-2025	45	14

Institution: **Montana Technological University**

Program Years: **2024-2025**

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:

This program should be retained.

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 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, and improving occupational and public health. The program enables and supports the students' professional advancement and the advancement of knowledge in industrial hygiene and occupational safety. The demand for graduates remains very high. Graduates are employed in a variety of organizations such as public utilities, government, academia, research laboratories, hospitals, insurance companies, consulting firms, petroleum, chemical and manufacturing companies, and mining operations. The MSIH is accredited by the Applied and Natural Sciences Accreditation Commission (ANSAC) of ABET, and has high retention and completion rates.

	Industrial Hygiene (MS)	
	Fall Enrollment	Number of Degrees
2018-2019	15	8
2019-2020	9	5
2020-2021	8	2
2021-2022	9	5
2022-2023	9	4
2023-2024	6	5
2024-2025	6	6

Institution: **Montana Technological University**

Program Years: **2024-2025**

List of the programs reviewed:

Industrial Hygiene Distance Learning/Professional Track (MS) renamed MS Industrial Hygiene Professional Track.

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

This program should be retained.

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 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 primarily online MSIHP is nationally ranked, Applied and Natural Sciences Accreditation Commission (ANSAC) of 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.

BOR Item #1502-LI0624 Request for authorization to retitle the MS Industrial Hygiene Distance Learning/Professional Track degree to MS Industrial Hygiene Professional Track

	Industrial Hygiene Professional Track (MS)		Industrial Hygiene Distance Learning/Professional Track (MS)	
	Fall Enrollment	Number of Degrees	Fall Enrollment	Number of Degrees
2018-2019			104	35
2019-2020			102	37
2020-2021			93	37
2021-2022			90	38
2022-2023			82	29
2023-2024		28	79	
2024-2025	84	29		

Institution: **Montana Technological University**

Program Years: **2024-2025**

List of the programs reviewed:

Ecological Restoration (MS)

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

This program should continue.

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 MS in Ecological Restoration was approved by the BOR in 2020 with the first degrees awarded 2021-2022 AY. Fall enrollment peaked in 2021-2022 and we have seen a decline each year since. Part of this decline was a result of capping the number of students accepted into the program because of the limited number of faculty mentors. The Biological Sciences department has begun to address this issue by widening the number of faculty who could mentor MS students in projects relevant to the discipline. This effort can raise the capacity to accept more students. The demand for graduates is high with most going on to work for environmental consulting firms or natural resource agencies. Further, this program is an obvious complement to the other environmental programs on the Montana Tech campus.

BOR Item #187-1501-R0320 Request for authorization to establish a Master of Science in Ecological Restoration

	Ecological Restoration (MS)	
	Fall Enrollment	Number of Degrees
2018-2019		
2019-2020		
2020-2021	4	
2021-2022	11	4
2022-2023	8	3
2023-2024	7	2
2024-2025	5	1