

Montana University System
PROGRAM REVIEW

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

Program Years: **2010-2011**

List of the programs reviewed:

- Applied Science – No Option
- Associate Science – AS
- Associate of Science – AS (COT)
- Biological Sciences – Bachelor's of Applied Science
- Biological Sciences – BS
- General Science
- General Studies – BAS
- Historic Preservation – AAS (COT)
- Nursing
- Radiologic Technology (COT)

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

Please see attached.

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.

Please see attached detailed Program Review Overviews.

Montana University System
PROGRAM REVIEW

Institution: Montana Tech of The University of Montana

Program Years: 2006-2011

List of the programs reviewed:

Applied Science – No Option

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

Eliminate this program.

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.

There is no evidence that there have been any majors or graduates in this program in the last 5 years at Montana Tech.

General Science – BS

Number of majors and graduates

Year	Associate Science Majors	Associate Science Graduates
2010-11	0	0
2009-10	0	0
2008-09	0	0
2007-08	0	0
2006-07	0	0

Montana University System
PROGRAM REVIEW

Institution: Montana Tech of The University of Montana

Program Years: 2006-2011

List of the programs reviewed:

Associate Science – AS

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

Retain this program.

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.

- Historically, the AS degree has been and continues to be an opt-out degree. In other words, the graduates were Bachelor's degree seeking students, who for whatever reason, were unable to obtain a B.S. degree and instead opted for this AS degree to have something to show for 2 years of school.
- Courses that satisfy the AS degree are taught by departments in support of their majors or as service courses for other degree areas. No additional resources are required for this program.

Associate of Science

Number of majors and graduates

Year	Associate Science Majors	Associate Science Graduates
2010-11	0	0
2009-10	0	1
2008-09	0	0
2007-08	0	4
2006-07	0	5

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Institution: Montana Tech of the University of Montana College of Technology

Program Years: 2005-2010

List of the programs reviewed:

Associate of Science – AS

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

Retain the program

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.

1. Montana Tech has had the Associate of Science degree on the books for many years. However, at Montana Tech it was listed, considered and treated as a part of the North Campus and students in the program were charged four year tuition rates. This degree was used, albeit rarely, as a “solution” for various problems. This meant that while there were no students in the actual program, it did produce a few graduates.
2. Starting in the 2010-2011 academic year, Montana Tech began a process of considering also listing the Associate of Science degree as part of South Campus and charging students in the program the two-year tuition rates. During that year, a few students were allowed to proceed in that manner.
3. Starting in the Fall, 2011, Montana Tech actually listed the Associate of Science degree as part of the South Campus and charged students in the program two-year rates. This action was part of the College!Now initiative of bringing the comprehensive community college mission to the colleges of technology. During this, Fall, 2011 semester, Montana Tech now has 131 students registered in the Associate of Science Program at its College of Technology.
4. The students in this program are those who are interested in pursuing a four-year degree but who are not quite ready in either Math or Writing or both. These students will receive significant advising as part of the program.
5. Because this program at the COT level has essentially just started, there is no graduation data to evidence the success or lack of success of this program. Considering however that it is a central part of Montana Tech’s effort in the College!Now initiative to bring the comprehensive community college mission to the colleges of technology, and further considering that in its very first semester there are 131 students registered, it is appropriate to recommend retaining this program.

Montana University System
PROGRAM REVIEW

Year	Student Majors Associate of Science (AS)	Number of Graduates Associate of Science (AS)
2011-2012*	131	TBA
2010-2011	0	
2009-2010	0	1
2008-2009	0	0
2007-2008	0	4
2006-2007	0	5

Montana University System
PROGRAM REVIEW

Institution: Montana Tech of the University of Montana

Program Years: 2006-2010

List of the programs reviewed:

Biological Sciences – Bachelor’s of Applied Science

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

Retain Program

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.

- Utilizing the same faculty and courses as the B.S. in Biological Sciences, the BAS in Biological Sciences comes at no additional cost to the school.
- While enrollment is small, the BAS in Biological Sciences does offer opportunities to a few students who would not have them otherwise.

Biological Sciences – BAS

Number of majors and graduates

Year	Biological Sciences BAS Majors	Biological Sciences BAS Graduates
2010-11	1	0
2009-10	1	0
2008-09	1	0
2007-08	0	0
2006-07	0	0

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Program Years: 2006-2010

List of the programs reviewed:

Biological Sciences - BS

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

Retain this program.

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.

- Department provides tremendous service load to other campus programs including Nursing, Occupational Safety and Health, Applied Health, Environmental Engineering.
- Strong placement of graduates in medical school, dental school, and graduate programs.
- Class of 2008 saw 100% placement with an average salary of \$37,713.
- Research active faculty.
- This B.S. in Biological Sciences is consistent with the mission and integral to the STEM focus of Montana Tech.

Biological Sciences – BS

Number of majors and graduates

Year	Biological Sciences Majors	Biological Sciences Graduates	Biological Sciences Majors Organismal Track	Biological Sciences Graduates Organismal Track
2010-11	80	11	6	5
2009-10	78	2	1	1
2008-09	61	8	4	4
2007-08	52	6	3	3
2006-07	41	10	7	3

Montana University System
PROGRAM REVIEW

Institution: Montana Tech of the University of Montana

Program Years: 2006-2010

List of the programs reviewed:

General Science - BS

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

Retain this program

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 major allows Montana Tech students interested in teaching science at the junior high or High School level a path in which to obtain the necessary state certification. The B.S. General Science major provides foundational science course work for students pursuing a Broadfield Science Teaching Certificate in Montana. Through an articulation with UM Western, the students accomplish this by completing the B.S. General Science degree at Montana Tech, while taking educational coursework offered by UM Western, but delivered at Montana Tech.
- This program also provides a safety net for students majoring in other science-based programs at Montana Tech, who for whatever reason, decide they do not wish to continue in their original major. The General Science major allows these students to apply many of the credits earned in their original major toward the B.S. in General Science.
- The B.S. in General Science is constructed from courses that are already offered at Montana and therefore makes few demands on resources.

General Science – BS

Number of majors and graduates

Year	General Science Majors	General Science Graduates
2010-11	5	-
2009-10	8	1
2008-09	3	1
2007-08	12	0
2006-07	12	1

Montana University System
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Institution: Montana Tech of the University of Montana College of Technology

Program Years: 2006-2010

List of the programs reviewed:

General Studies - BAS

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

Retain this Program

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 in General Studies provides a path for a student completing an AAS degree to obtain the BAS in General Studies by:
 - transferring in maximum of 60 credits of work completed at the AAS level;
 - completing a 31 credit General Education Core; and
 - passing 29 credits of upper division electives.
- This degree option is attractive to students in the Helena Program.
- The BAS in General Studies utilizes courses that are already offered at Montana Tech and therefore makes few demands on resources.

General Studies

Number of majors and graduates

Year	General Studies Majors	General Studies Graduates
2010-11	1	1
2009-10	2	1
2008-09	3	0
2007-08	2	0
2006-07	0	0

Montana University System
PROGRAM REVIEW

Institution: Montana Tech of the University of Montana College of Technology

Program Years: 2005-2010

List of the programs reviewed:

Historic Preservation – AAS

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

Retain the program

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.

1. Montana Tech developed the Associate of Applied Science in Historic Preservation in 2004 in response to the local needs of the City of Butte. It is well known that Butte has a number of buildings which are very old and which have significant historic value and which also form the backbone of the cultural architecture of the city. Preserving the historic buildings of Butte was the motivating force that spurred the development of this degree.
2. Initially, the program started with decent student numbers. Problems began surfacing because the program had to be run completely with adjunct faculty. There was no single faculty member who served as the main cheerleader and champion of the program. As a result, the numbers suffered significantly in 2009-10.
3. Starting in the Fall, 2010, Montana Tech began a reconsideration of the entire degree. Consulting with its Advisory Board, the Chair of Trades & Technical re-envisioned the program. The program now is in significant alignment with the Construction Technology program in that the students in both Construction Technology and Historic Preservation take the same classes in the first year and then specialize in the second year.
4. Starting in the Fall, 2011, the newly reminted Historic Preservation was opened to students. Time will tell if the changes made are enough. If the program does not bring in a sufficient number of students, the College of Technology is prepared to put the program into moratorium.

Montana University System
PROGRAM REVIEW

Year	Historic Preservation Majors	Historic Preservation Graduates
2010-11	0	0
2009-10	0	0
2008-09	8	4
2007-08	8	0
2006-07	7	4

Montana University System
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Institution: Montana Tech of The University of Montana

Program Years: 2006-2011

List of the programs reviewed:

Nursing

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

Continue to offer both the ASN and BSN-Completion degree programs

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 217
 - Pre-nursing 130
 - ASN 73
 - BSN 12
- Third largest degree program at Montana Tech –Fall 2011
- NCLEX-RN pass rate 92.31%.
- NLNAC (National League of Nursing Accrediting Commission) Accreditation until 2018
- MSBON (Montana State Board of Nursing) program approval until 2018

Nursing

Number of majors and graduates

Year	Pre-Nursing	ASN Majors	ASN Graduates	BS Majors	BSN Graduates
2010-11	144	65	27	13	9
2009-10	114	55	22	10	11
2008-09	79	55	26	15	10
2007-08	102	53	23	19	13
2006-07		182	46	19	7

Institution: Montana Tech of the University of Montana College of Technology

Montana University System
PROGRAM REVIEW

Program Years: 2006-2011

List of the programs reviewed:

Radiologic Technology

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

Retain the program

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 US Department of Labor estimates that employment of radiographers (Radiologic Technologists) is projected to grow 17.2% by the year 2018.
- As the healthcare industry expands due to the advancements in radiology technology, the field is in constant growth.
- As healthcare services increase due to the aging population, obesity, and other diseases and injuries, performance of radiologic procedures will be relied upon to assist physicians to diagnose and provide proper treatment for these disorders.
- Program review and input from the Radiologic Technology Program Advisory Board advises that the program continue.
- Program acceptance and completion numbers are limited due to the number of clinical sites available in our service region.
- The US Department of Labor estimates that the annual wages of wage-and-salary radiographers were \$53,240.00 for 2009, an increase of 15.9% since 2005.
- Upon completion of the AAS in Radiologic Technology, graduates must sit for the national registry of the American Registry of Radiologic Technologists (ARRT). As of this date, September 2011, graduates from Montana Tech College of Technology Radiologic Technology Program have an overall passing rate of 90%.
 - Passing the ARRT registry is required for radiologic technologists to work in radiology
 - Montana requires a state license in radiologic technology in addition to the national registry prior to working in radiology

Montana University System
PROGRAM REVIEW

- Radiographers can advance in the radiology field, either by on-the-job training or additional education, into other radiology imaging modalities: (Annual growth rate up to 2018)
 - CT, MRI, Mammography, Bone Densitometry: 1.6%
 - Medical Diagnostic Sonographer: 1.7%
 - Nuclear Medicine Technologist: 1.5%
 - Radiation Therapist: 2.4%

Year	Number of Student Accepted into Radiologic Technology	Number of Graduates AAS Radiologic Technology
2010-2011	17	15
2009-2010	17	16
2008-2009	19	15
2007-2008	21	20
2006-2007	17	17
2005-2006	7	7

Year Graduated	Placement Rate	Median Salary-Montana
2011	No data as of this date	No data as of this date
2010	94%	\$40,404
2009	67%	\$37,800
2008	90%	\$40,833
2007	94%	\$33,245
2006	100%	\$31,940