

Montana University System
PROGRAM REVIEW

Institution: **Montana Technological University**

Program Years: **2011-2017**

List of the programs reviewed:

- B.S. in Petroleum Engineering
 - M.S. in Petroleum Engineering
 - A.A.S. in Civil Engineering Technology
 - B.S. in General Engineering
 - M.S. in General Engineering
 - B.S. in Mining Engineering
 - M.S. in Mining Engineering
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Decision(s) concerning the future of the program(s), based on the program review criteria established at the campus:

All reviewed programs 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.

See attached detailed program review summaries.

Montana University System
PROGRAM REVIEW

Institution: **Montana Technological University**

Program Years: **2017-2018**

List of the programs reviewed:

Petroleum Engineering (BS)

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

The B.S. in Petroleum Engineering 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 Petroleum Engineering program is one of Montana Tech’s heritage programs. It is one of 19 undergraduate Petroleum Engineering programs in the U.S. Enrollment has declined in the past due, in part to the decline of oil prices, but we anticipate enrollment to increase due to the recent increase in the price of a barrel of oil. Increases/decreases in enrollment generally lags the increase/decrease in the price of oil. The Program Prioritization process currently underway at Tech may have recommendations for the future of the department.

	14.2501 BS Petroleum Engineering	
	Fall Enrollment	Number of Degrees
2012-2013	341	64
2013-2014	396	70
2014-2015	372	65
2015-2016	352	102
2016-2017	281	97
2017-2018	200	81
2018-2019	158	

Montana University System
PROGRAM REVIEW

Institution: Montana Technological University

Program Years: 2017-2018

List of the programs reviewed:

Petroleum Engineering (MS)

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

The M.S. in Petroleum Engineering 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 Petroleum Engineering program is one of Montana Tech's heritage programs. Enrollment has been stable during the past seven years. We anticipate enrollment to increase due to the recent increase in the price of a barrel of oil. Increases/decreases in enrollment generally lags the increase/decrease in the price of oil. The Program Prioritization process currently underway at Tech may have recommendations for the future of the department.

	14.2501 MS Petroleum Engineering	
	Fall Enrollment	Number of Degrees
2012-2013	5	3
2013-2014	4	1
2014-2015	6	3
2015-2016	6	2
2016-2017	8	2
2017-2018	8	4
2018-2019	5	

Montana University System
PROGRAM REVIEW

Institution: Montana Technological University

Program Years: 2017-2018

List of the programs reviewed:

Civil Engineering Technology (AAS)

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

The A.A.S. in Civil Engineering Technology 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.

Enrollment in the program and the corresponding drop in the number of graduates in this program can be attributed to the fact that the lead instructor in this program was granted a sabbatical last year to re-evaluate the program's curriculum and plan of study to meet the needs of industry and the transfer needs of Montana Tech's Civil Engineering department. The lead instructor is back on campus this year and is implementing a number of the initiatives he identified during his sabbatical. In addition, the Civil Engineering Technology program has been identified as one that may play a role in the Program Prioritization process in which the campus is fully engaged.

	15.0201 AAS Civil Engineering Technology	
	Fall Enrollment	Number of Degrees
2012-2013	21	4
2013-2014	28	10
2014-2015	32	10
2015-2016	29	13
2016-2017	16	9
2017-2018	4	1
2018-2019	7	

Montana University System
PROGRAM REVIEW

Institution: Montana Technological University

Program Years: 2017-2018

List of the programs reviewed:

General Engineering (BS)

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

In May of 2016, the Board of Regents approved the B.S. Civil Engineering and B.S. Mechanical Engineering while phasing out the B.S. General Engineering. In Fall 2016, students were no longer admitted to the B.S. General Engineering. Item #170-1501-R0316. The program will 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.

	14.0101 BS General Engineering	
	Fall Enrollment	Number of Degrees
2012-2013	256	54
2013-2014	259	44
2014-2015	197	45
2015-2016	211	45
2016-2017	252	53
2017-2018	92	70
2018-2019	35	

Montana University System
PROGRAM REVIEW

Institution: Montana Technological University

Program Years: 2017-2018

List of the programs reviewed:

General Engineering (MS)

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

The M.S. in General Engineering 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.

When the Board of Regents approved the B.S. in Civil and Mechanical Engineering in May of 2016, the campus decided to continue the General Engineering M.S. degree as means by which our students (as well as students from other universities) could continue their education at the master's level. Enrollment has been solid and the M.S. adds value to the institution by offering our faculty a method to enroll graduate students to assist them in their research. We expect the enrollment in this degree to increase with the recent additions of young, research-active faculty.

	14.0101 MS General Engineering	
	Fall Enrollment	Number of Degrees
2012-2013	11	8
2013-2014	7	4
2014-2015	5	3
2015-2016	4	1
2016-2017	7	2
2017-2018	11	5
2018-2019	11	

Montana University System
PROGRAM REVIEW

Institution: **Montana Technological University**

Program Years: **2017-2018**

List of the programs reviewed:

Mining (BS)

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

The B.S. in Mining Engineering 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 Mining Engineering program is one of Montana Tech's heritage programs. It is one of 12 undergraduate Mining Engineering programs in the U.S. Enrollment has declined in the past due, in part to the fluctuation of commodity prices, but we as a campus have dealt with price fluctuations in gold, copper, silver, etc. since we first opened our doors in 1900. Increases/decreases in enrollment generally lags the increase/decrease in commodity prices. The Program Prioritization process currently underway at Tech may have recommendations for the future of the department.

	14.2101 BS Mining Engineering	
	Fall Enrollment	Number of Degrees
2012-2013	79	9
2013-2014	83	19
2014-2015	65	21
2015-2016	50	15
2016-2017	47	10
2017-2018	52	13
2018-2019	57	

Montana University System
PROGRAM REVIEW

Institution: **Montana Technological University**

Program Years: **2017-2018**

List of the programs reviewed:

Mining (MS)

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

The M.S. in Mining Engineering 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 Mining Engineering program is one of Montana Tech's heritage programs. Enrollment in this master's program fluctuates, in part due to the fluctuation of commodity prices but we as a campus have dealt with price fluctuations in gold, copper, silver, etc. since we first opened our doors in 1900. Increases/decreases in enrollment generally lags the increase/decrease in commodity prices. The Program Prioritization process currently underway at Tech may have recommendations for the future of the department.

	14.2101 BS Mining Engineering	
	Fall Enrollment	Number of Degrees
2012-2013	1	1
2013-2014	2	0
2014-2015	5	1
2015-2016	6	4
2016-2017	7	3
2017-2018	9	6
2018-2019	5	