























developed the underground mine exhibit for the World Museum of Mining and, in return, are able to use the exhibit for instructional and research needs.

#### 4.5 Special recognition

Montana Tech is continually recognized by periodicals such as a *U.S. News & World Report* and *The Princeton Review* as one of the top colleges in the United States. The campus has seen a number of its faculty recognized as *Montana Case Professors of the Year* and a number of faculty have been chosen as Fulbright Scholars. Montana Tech's student academic teams continually garner national and international recognition (and championships) in competitions such as Environmental Engineering Design, Steel Bridge, Concrete Canoe, Cyber-defense, Mining, Petroleum, and Business competitions.

#### 4.6 Peer comparisons

Appendix A contains peer comparison data.

### 5.0 SYSTEM COLLABORATION

#### 5.1 Collaborations with K-12

The Outreach Office currently collaborates with over 30 K-12 school districts in Montana. The Upward Bound program serves Butte, Anaconda, Helena, Whitehall, Twin Bridges, Sheridan, Ennis, Harrison, Alberton, Superior, Thompson Falls, and Plains districts. The Educational Talent Search program serves Butte, Anaconda, Helena, and Deer Lodge districts. The Clark Fork Education program serves the students, and the Math Science Partnership program serves the teachers, in the Butte, Anaconda, Deer Lodge, Philipsburg, Drummond, Bonner, and Missoula districts. The Jump Start program is serving students in the Butte, Anaconda, Red Lodge, Ennis, Deer Lodge, Butte Central, Plains, Whitefish, and Great Falls schools. Formal agreements are in place to document these collaborations. Less formal collaborations exist with other Outreach programs. Examples include: the AmeriCorps program placing volunteers in after school tutoring programs in Butte, Anaconda, and Whitehall, the Public Service program bringing Montana Tech's portable planetarium to any school that requests.

#### 5.2 Program Partnerships

Montana Tech has been very active in program partnerships/collaborations with academic institutions at the state, regional, national and international levels. Examples include, but are not limited to:

- The Business and Information Technology (BIT) Department offers upper division courses on the UM-Helena campus in support of the *Helena Business Program*.
- The Health Care Informatics Department offers their courses via distance delivery to universities in West Virginia and Indiana.
- The University of Montana – Western offers Secondary Education courses on the Tech campus enabling Montana Tech students to work towards education certification.
- A minor in Addiction Treatment Services as well as a Certificate in Addiction Treatment Services is available through online coursework offered by the University of Nevada – Reno.
- In 2010, Montana Tech signed a MOU with the Western Transportation Institute creating the *Western Transportation Institute/Montana Tech*.
- Montana Tech is a dedicated *Center of Excellence* for Rocky Mountain Supercomputing Centers Incorporated (RMSC).

- Montana Tech has exchange agreements with universities in Canada, South America, China, Australia, Japan, Ireland, and Scotland.

The continued growth in funded research on the Montana Tech campus, as described in section 4, provides expanded opportunities for students interested in MS and Ph.D. degrees. Montana Tech currently has active collaborative PhD programs with the University of Montana – Missoula, and will be developing specific new collaborative programs which reflect the growing research and technology development programs on both campuses. The Center for Advanced Mineral and Metallurgical Processing (CAMP) has played, and will continue to play an integral role in this endeavor.

### 5.3 Participation in System Initiatives

Montana Tech has participated and will continue to participate in MUS initiatives. Examples of the Montana Tech’s participation in system initiatives include, but are not limited to: the College!Now (formerly Making Opportunities Affordable) initiative, the Common Course Numbering (CCN) initiative, and EPSCoR. The campus also participates in initiatives within the affiliated campuses of The University of Montana. Examples of activities in this area include the selection of a new Learning Management System (LMS) and continued collaboration with the University of Montana – Missoula in technology enhancement.

### 5.4 Support/Collaboration with other campuses (CC’s, Tribal Colleges, other)

Montana Tech has articulation agreements with Montana’s Community, Tribal and Colleges of Technology. Other collaborative agreements include, but are not limited to:

- Montana Tech’s Radiologic Technology program offered at Miles Community College.
- An agreement with the University of Montana – Missoula College of Technology in Pharmacy Technology.
- An agreement with the University of Montana – Missoula College of Technology in Surgical Technology.
- Montana Tech’s involvement in the Energy Consortium with the Colleges of Technology in Great Falls and Billings as well as Montana State University – Northern.

6.0 OPERATING BUDGET

REPORTING METRIC EXPENDITURES PER STUDENT						
<u>Campus</u>	<u>FY 05</u> <u>Actual</u>	<u>FY 06</u> <u>Actual</u>	<u>FY 07</u> <u>Actual</u>	<u>FY 08</u> <u>Actual</u>	<u>FY 09</u> <u>Budgeted</u>	<u>Growth</u> <u>Rate</u>
<b>University of Montana</b>						
UM - Missoula	\$ 8,904	\$ 9,369	\$ 9,799	\$ 10,354	\$ 10,851	5.1%
UM - MT Tech	9,341	10,192	10,443	10,903	11,198	4.6%
UM - Western	8,302	8,561	9,298	9,794	10,412	5.8%
UM - Helena COT	6,177	6,815	6,793	7,671	7,677	5.6%
<b>Montana State University</b>						
MSU - Bozeman	9,692	10,370	11,242	12,090	12,429	6.4%
MSU - Billings	7,568	7,897	8,375	8,786	9,133	4.8%
MSU - Northern	9,143	9,839	10,498	11,826	12,521	8.2%
MSU - Great Falls COT	6,504	6,734	7,071	7,656	7,772	4.6%
<b>Community Colleges*</b>						
Dawson	6,423	6,881	8,319	8,939	9,316	9.7%
Flathead Valley	6,267	7,027	7,820	8,328	8,208	7.0%
Miles	7,095	8,412	9,265	10,698	11,229	12.2%

Source: Individual campus reporting metric worksheets for "Expenditures per Student FTE"

\*FY 08 was the first year this information was reported for Community Colleges.

APPENDICES

**Appendix A – Institutional Characteristics**

A-1 - List of Peer Institutions

- Colorado School of Mines
- South Dakota School of Mines
- Missouri University of Science and Technology
- New Mexico Institute of Mining and Technology

Institution	Montana Tech and College of Technology	Colorado School of Mines	Missouri University of Science and Technology	New Mexico Institute of Mining and Technology	South Dakota School of Mines and Technology
FTE enrollment: Academic year 2007-08	2,140	4,485	5,323	1,451	1,740
Expense per FTE Student (Fiscal Year 2008)					
Instruction	\$6,120	\$9,221	\$11,012	\$10,662	\$7,408
Research	\$4,780	\$7,101	\$5,292	\$5,151	\$5,480
Public service	2	0	620	1645	610
Academic support	\$1,354	\$2,257	\$1,294	\$1,442	\$2,825
Institutional support	\$1,480	\$1,940	\$1,688	\$4,067	\$2,759
Student services	\$1,440	\$717	\$2,437	\$2,074	\$1,664
Other core expenses	\$4,719	\$5,744	\$4,815	\$13,457	\$3,137

**Appendix B – Academic Profile**

B-1 - Undergraduate Degree Recipients by College, 2008-09

College/Department	#	%
College of Technology	93	25
College of Letters, Sciences and Professional Studies	123	33
School of Mines and Engineering	159	42

B-2 - Graduate Degree Recipients by College, 2008-09

College/Department	#	%
Graduate School	41	100

B-3 - Faculty Characteristics and Faculty Productivity

Summary of Full-Time Faculty Characteristics													
Rank or Class	Full-Time Faculty												
	Number	Number of Terminal Degrees					Gender	Fall 2009 Credit Load	Ethn.	Ten.	Years at Tech	Number of Pubs	Number of Funded Grants
	Full Time	Dr	M	B	Prof Lic	Less than Bac	% Female	Median	% White	%	Med.	Average Over Last 5 Years	Average Over Last 5 Years
Professor	40	40	0	0	11	0	15	10	95	98	19	5	3
Associate Professor	24	14	10	0	5	0	42	10	100	62	14	3	2
Assistant Professor	41	22	19	0	8	0	37	9	95	5	5	4	1
Adjunct	12	1	9	1	1	0	25	3.5	100	0	10	< 0.5	0
Inst. I	6	1	2	1	1	2	20	12	100	0	2.5	1	< 0.5
Inst. II	10	0	3	7	1	0	70	16	100	30	11	< 0.5	< 0.5
Inst. III	7	0	6	1	0	0	71	15	100	100	16	< 0.5	2
Research	30	8	20	2	1	0	27		97	7	17.5	7	3
Visiting Faculty	6	1	3	1	1	1	33	9	100	0	2.5	1	0

Appendix C – Students

C-1 – General description of student body (headcount distribution for major demographic variables) ex. gender, residency, level, ethnicity, age, FT/PT.

	Fall 2004	Fall 2005	Fall 2006	Fall 2007	Fall 2008	Fall 2009
Technical (CT)	319	421	429	447	422	507
Undergraduate (UG)	1,770	1,720	1,843	1,796	1,871	2,053
Graduate (GR)	99	93	85	104	109	134
<b>TOTAL</b>	<b>2,188</b>	<b>2,234</b>	<b>2,357</b>	<b>2,347</b>	<b>2,402</b>	<b>2,694</b>

	Fall 2004	Fall 2005	Fall 2006	Fall 2007	Fall 2008	Fall 2009
Male	1,204	1,237	1,326	1,381	1,444	1,624
Female	984	997	1,031	966	958	1,070
% Male	55%	55%	56%	59%	60%	60%
% Female	45%	45%	44%	41%	40%	40%

	Fall 2004	Fall 2005	Fall 2006	Fall 2007	Fall 2008	Fall 2009
Full-time	1,798	1,771	1,885	1,920	1,952	2,232
Part-time	390	463	472	427	450	462
% Full-time	82%	79%	80%	82%	81%	83%
% Part-time	18%	21%	20%	18%	19%	17%

	Fall 2004	Fall 2005	Fall 2006	Fall 2007	Fall 2008	Fall 2009
Students 18-24 Years Old	1,346	1,407	1,540	1,580	1,632	1,750
% Students 18-24 Years Old	62%	63%	65%	67%	68%	65%

Source: OCHE Reports AA and F

	Fall 2004	Fall 2005	Fall 2006	Fall 2007	Fall 2008	Fall 2009
<b>International Students</b>	61	73	87	106	164	209
Black/non-Hispanic	7	11	10	12	15	17
American Indian or Alaska Native	30	24	35	29	41	62
Asian or Pacific Islander	17	16	11	13	11	18
Hispanic	30	33	37	41	39	47
White non-Hispanic	1,857	1,880	1,988	1,935	1,921	2,128
Unknown	186	197	189	211	211	213
Total	2,188	2,234	2,357	2,347	2,402	2,694
% Minority	7%	7%	8%	9%	11%	13%
% Unknown	9%	9%	8%	9%	9%	8%
% Minority <sup>1</sup>	7%	8%	8%	9%	12%	14%

<sup>1</sup>Calculation based on students with reported race/ethnicity only

Source: IPEDS Fall Enrollment Survey



C-2 - Freshmen ACT scores distributed by ranges (<18, 18-20, 21-24, 25-29, 30+)/ same for SAT; % of entering class requiring remediation, in either English, in math, or both

**North Campus first-time full-time degree seeking standardized test scores**

	ACT Composite		ACT English		ACT Math	
	2008	2009	2008	2009	2008	2009
30-36	8%	7%	7%	5%	14%	12%
24-29	44%	37%	30%	31%	50%	46%
18-23	45%	50%	52%	48%	33%	36%
12-17	2%	6%	11%	15%	3%	6%
11-6	0%	0%	1%	1%	0%	0%
Below 6	0%	0%	0%	0%	0%	0%

	SAT Verbal/Critical Reading		SAT Math	
	2008	2009	2008	2009
700-800	4%	2%	9%	3%
600-699	22%	21%	30%	34%
500-599	40%	30%	39%	37%
400-499	28%	39%	19%	24%
300-399	5%	8%	3%	1%
200-299	1%	0%	0%	1%

Source: Common Data Set

**C-3 - Retention & Graduation Rate of First-time, Full-time Freshmen**

	2004	2005	2006	2007	2008	2009
Fall to Fall Retention Rate	60%	69%	67%	75%	69%	72%
Six year Graduation Rate	40%	42%	38%	41%	38%	42%

Source: IPEDS Fall Enrollment and Graduation Rate Surveys

**C-4 - Student FTE by Residency & Level**

**North Campus**

	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Resident Total	1,436	1,398	1,464	1,426	1,485
Undergraduates	1,375	1,356	1,405	1,377	1,434
Graduates	61	42	58	49	51
Non-resident Total	255	281	320	366	404
Undergraduates	111	133	156	201	265
WUE	119	122	137	135	107
Graduates	26	26	28	30	32
Total FTE	1,692	1,679	1,784	1,791	1,889

South Campus

	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Resident Total	264	289	288	324	305
Undergraduates	264	289	288	324	305
Graduates	0	0	0	0	0
Non-resident Total	16	14	17	24	26
Undergraduates	8	8	13	16	20
WUE	8	6	4	9	6
Graduates	0	0	0	0	0
Total FTE	280	303	304	349	331

Total

	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Resident Total	1,700	1,687	1,752	1,750	1,790
Undergraduates	1,639	1,645	1,693	1,701	1,739
Graduates	61	42	58	49	51
Non-resident Total	271	295	337	390	430
Undergraduates	119	141	169	217	285
WUE	127	128	141	144	113
Graduates	26	26	28	30	32
Total FTE	1,972	1,982	2,088	2,140	2,220

Source: [http://mus.edu/data/enrollment/Detailed%20Enrollment%20Record%20\(FY97-FY09\).pdf](http://mus.edu/data/enrollment/Detailed%20Enrollment%20Record%20(FY97-FY09).pdf)

C-5 - Student Headcount by New Student Status

	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09
First-time Freshmen*	399	398	463	445	501	491
New Transfer Students	138	148	173	181	159	233
First-time Graduate Student	20	12	16	18	19	23
First-time Non-degree*	122	192	143	117	146	162
Total New Students	679	750	795	761	825	909

Source: OCHE Report AB

\*Jump Start students included in Non-degree category

C-6 - Degrees Award by Type

	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09
Certificates	2	12	11	11	5	32
Associate Degrees	130	97	105	128	106	87
Bachelor Degrees	269	287	211	262	263	256
Master Degrees	28	31	25	35	30	41
Total Degrees	429	427	352	436	404	416

Source: IPEDS Completion Survey

Appendix D – Research and Outreach

