MONTANA UNIVERSITY SYSTEM

System & Campus Dashboard Indicators

Graduate Education

MSU Graduate Degrees Awarded Graduate Degrees (Narrow) MSTEM Degrees (Broad) 10% 25% 10% 10% 10% 10% 10% 100%									10 Year
Bozeman Graduate Degrees Awarded * Graduate Degrees Awarded per 100 Graduate Student FTE 45.0 52.6 47.3 50.9 50.3 52.7 10.0 Graduate Student FTE 45.0	Campus	Enrollment & Degrees	2001-02	2006-07	2007-08	2008-09	2009-10	2010-11	Change
MSU Graduate Student FTE 132 75 63 75 66 61 67 67 67 67 67 67	MSU	Graduate Student FTE	808	880	915	945	1026	1075	
MSU Graduate Student FTE 45.0 52.6 47.3 50.9 50.3 52.7	Bozeman		364	463	433	481	516	566	
STEM Degrees (Broad) 35% 25% 28% 27% 27% 27% 27% 27% 35% 45% 49% 44% 46% 52% 45% 49% 44% 46% 52% 45% 49% 44% 46% 52% 45% 49% 44% 46% 52% 45% 49% 44% 46% 52% 45% 49% 44% 46% 52% 45% 49% 44% 46% 52% 45% 49% 44% 46% 52% 45% 49% 44% 46% 52% 45% 40% 44% 46% 52% 45% 49% 44% 46% 52% 45% 40% 44% 46% 52% 45% 40% 44% 46% 52% 45% 40% 44% 46% 52% 44% 45% 49% 44% 46% 52% 44% 45% 49% 44% 46% 52% 44% 46% 52% 44% 45% 49% 44% 46% 52% 44% 45% 49% 44% 46% 52% 44% 45% 44% 46% 52% 44% 45% 44% 46% 52% 44% 45% 44% 46% 52% 44% 45% 44% 46% 52% 44% 45% 44% 46% 52% 44% 45% 44% 46% 52% 44% 45% 44% 46% 52% 44% 46% 46% 52% 44% 46% 46% 52% 44% 46%		· 1	45.0	F2.6	17.2	50.0	E0 2	52 7	
MSU Graduate Student FTE 297 286 296 300 295 341 100 128 125 125 100 Graduate Degrees Awarded Per 100 Graduate Student FTE 38.4 38.5 40.9 35.3 43.4 36.7 100 Graduate Student FTE 38.4 38.5 40.9 35.3 43.4 36.7 100 Graduate Student FTE 38.4 38.5 40.9 35.3 43.4 36.7 100 Graduate Student FTE 38.4 38.5 40.9 35.3 43.4 36.7 100 Graduate Student FTE 38.4 38.5 40.9 35.3 43.4 36.7 100 Graduate Student FTE 312 75 63 75 66 61 100 Graduate Degrees Awarded Per 100 Graduate Student FTE 25.8 44.1 20.6 37.3 18.2 58.7 100 Graduate Student FTE 45.6 39.5 30.4 49.3 16.9 42.3 16			45.0	32.0	47.3	30.9	30.3	32.7	-
MSU Graduate Student FTE 132 75 63 75 66 61 61 61 61 61 61 6		% STEM Degrees (Narrow)	35%	25%	28%	27%	27%	27%	•
Billings Graduate Degrees Awarded		% STEM Degrees (Broad)	49%	45%	49%	44%	46%	52%	
Billings Graduate Degrees Awarded		I Complement Charles TT	207	200	200	200	205	244	
Graduate Degrees Awarded per 100 Graduate Student FTE 132 75 63 75 66 61 63 64 64 65 65 65 65 66 64 65 65				_					
100 Graduate Student FTE 38.4 38.5 40.9 35.3 43.4 36.7	Billings	_	114	110	121	106	128	125	
STEM Degrees (Narrow) 0% 0% 0% 0% 0% 0% 0% 0			38.4	38.5	40.9	35.3	43.4	36.7	
MSU Graduate Student FTE 132 75 63 75 66 61 61 61 61 61 61 6			00/	00/	00/	00/	00/	00/	
MSU Graduate Student FTE 132 75 63 75 66 61 61 61 61 61 61 6									
Northern Graduate Degrees Awarded * 34 33 13 28 12 36 36 37 37 37 37 37 38 38 38		% STEW Degrees (Broad)	10%	25%	16%	28%	30%	24%	-
MT Tech Graduate Degrees (Narrow) 0% 0% 0% 0% 0% 0% 0% 0	MSU	Graduate Student FTE	132	75	63	75	66	61	•
Graduate Degrees Awarded per 100 Graduate Student FTE % STEM Degrees (Narrow) 0% 0% 0% 0% 0% 0% 0% 0	Northern	Graduate Degrees Awarded*	34	33	13	28	12	36	
MT Tech Graduate Student FTE 0% 0% 0% 0% 0% 0% 0%		Graduate Degrees Awarded per	25.0	44.1	20.6	27.2	10.3	F0.7	
MT Tech Graduate Student FTE 79 86 79 83 107 118 118 50 118		100 Graduate Student FTE	25.8	44.1	20.6	37.3	18.2	58.7	
MT Tech Graduate Student FTE 79 86 79 83 107 118 Graduate Degrees Awarded* 36 34 24 41 18 50 Graduate Degrees Awarded per 100 Graduate Student FTE 45.6 39.5 30.4 49.3 16.9 42.3 W STEM Degrees (Narrow) 67% 65% 75% 56% 56% 64% W STEM Degrees (Broad) 100% 1		% STEM Degrees (Narrow)	0%	0%	0%	0%	0%	0%	
Graduate Degrees Awarded * 36		% STEM Degrees (Broad)	21%	6%	0%	0%	0%	0%	
Graduate Degrees Awarded * 36									
Graduate Degrees Awarded per 100 Graduate Student FTE 45.6 39.5 30.4 49.3 16.9 42.3	MT Tech	Graduate Student FTE	79	86	79	83	107	118	
100 Graduate Student FTE 45.6 39.5 30.4 49.3 16.9 42.3 49.3 40.9 42.3 49.3 40.0 4		Graduate Degrees Awarded*	36	34	24	41	18	50	
STEM Degrees (Narrow) 67% 65% 75% 56% 56% 64% 100		Graduate Degrees Awarded per	45.6	20.5	20.4	40.2	16.0	42.2	_
W STEM Degrees (Broad) 100% 100		100 Graduate Student FTE	45.0	39.5	30.4	49.3	16.9	42.3	
UM Missoula Graduate Student FTE 1501 1691 1759 1723 1794 1832 Graduate Degrees Awarded* 565 676 686 706 698 746 Graduate Degrees Awarded per 100 Graduate Student FTE 37.6 40.0 39.0 41.0 38.9 40.7 % STEM Degrees (Narrow) 8% 8% 7% 8% 6% 5% % STEM Degrees (Broad) 25% 30% 30% 30% 35% 38% MUS Graduate Student FTE Graduate Degrees Awarded* 2818 John State Student Student FTE John State St		% STEM Degrees (Narrow)	67%	65%	75%	56%	56%	64%	
Missoula Graduate Degrees Awarded* 565 676 686 706 698 746 Graduate Degrees Awarded per 100 Graduate Student FTE 37.6 40.0 39.0 41.0 38.9 40.7 % STEM Degrees (Narrow) 8% 8% 7% 8% 6% 5% % STEM Degrees (Broad) 25% 30% 30% 30% 35% 38% MUS Graduate Student FTE Graduate Degrees Awarded* 2818 3017 3112 3127 3287 3427		% STEM Degrees (Broad)	100%	100%	100%	100%	100%	100%	
Missoula Graduate Degrees Awarded* 565 676 686 706 698 746 Graduate Degrees Awarded per 100 Graduate Student FTE 37.6 40.0 39.0 41.0 38.9 40.7 % STEM Degrees (Narrow) 8% 8% 7% 8% 6% 5% % STEM Degrees (Broad) 25% 30% 30% 30% 35% 38% MUS Graduate Student FTE Graduate Degrees Awarded* 2818 3017 3112 3127 3287 3427		Craduata Student FTF	1504	1004	1750	4722	1704	4022	
Graduate Degrees Awarded per 100 Graduate Student FTE 37.6 40.0 39.0 41.0 38.9 40.7 100 Graduate Student FTE 8 STEM Degrees (Narrow) 8% 8% 7% 8% 6% 5% 8 STEM Degrees (Broad) 25% 30% 30% 30% 35% 38% 10 10 10 10 10 10 10 1	_								$\overline{\mathbf{A}}$
100 Graduate Student FTE 37.6 40.0 39.0 41.0 38.9 40.7	Missoula		505	6/6	686	706	698	746	-
MUS Graduate Student FTE 2818 3017 3112 3127 3287 3427 Total Graduate Degrees Awarded* 1113 1316 1277 1362 1372 1523		- · · · · ·	37.6	40.0	39.0	41.0	38.9	40.7	
MUS Graduate Student FTE 2818 3017 3112 3127 3287 3427 Total Graduate Degrees Awarded* 1113 1316 1277 1362 1372 1523 Graduate Degrees Awarded per 30.5 43.6 41.0 43.6 41.7 44.4			00/	00/	70/	00/	C0/	F0/	
MUS Graduate Student FTE 2818 3017 3112 3127 3287 3427 Total Graduate Degrees Awarded* 1113 1316 1277 1362 1372 1523 Graduate Degrees Awarded per 30.5 43.6 41.0 43.6 41.7 44.4									
Total Graduate Degrees Awarded* 1113 1316 1277 1362 1372 1523 Graduate Degrees Awarded per 30.5 43.6 41.0 43.6 41.7 44.4		% STEW Degrees (Broad)	25%	30%	30%	30%	35%	38%	-
Total Graduate Degrees Awarded* 1113 1316 1277 1362 1372 1523 Graduate Degrees Awarded per 30.5 43.6 41.0 43.6 41.7 44.4	MUS	Graduate Student FTE	2818	3017	3112	3127	3287	3427	
Graduate Degrees Awarded per		Graduate Degrees Awarded*	1113	1316	1277	1362	1372	1523	
100 Graduate Student FTE 39.5 43.0 41.0 45.0 41.7 44.4		_	20.5	42.0	41.0	42.0	41 7	44.4	
100 Graduate Student 112		100 Graduate Student FTE	39.5	43.6	41.0	43.6	41./	44.4	-
% STEM Degrees (Narrow) 18% 15% 14% 15% 14% 14%			18%	15%	14%	15%	14%	14%	
% STEM Degrees (Broad) 34% 36% 36% 36% 39% 43%		% STEM Degrees (Broad)	34%	36%	36%	36%	39%	43%	

source: MUS Data Warehouse

 $[\]hbox{*includes master's, doctoral, and professional degrees; source: source: MUS Warehouse}$

MONTANA UNIVERSITY SYSTEM

System & Campus Dashboard Indicators

Graduate Education

Summary Analysis

- 1) Graduate student FTE has increased by 22% in the past ten years, growing at all campuses, except MSU Northern.
- 2) The MUS awarded over 400 more graduate degrees in 2011 than it did 2002. Both MSU Bozeman (202) and UM Missoula (181) increased graduate degree production by approximately 200 degree recipients.
- 3) The number of graduate degrees produced per 100 graduate student FTE in MUS increased over the past 10 years. Campuses where this ratio increased were: MSU Bozeman, MSU Northern, and UM Missoula
- 4) In comparison to regional peers (see Strategic Plan) the MUS produces a higher percentage of STEM degrees when STEM is defined **broadly** (39% to 34%), but a slightly lower percentage when comparing **narrowly** defined STEM degrees (14% to 17%). (note: in addition to traditional STEM disciplines the broad definition includes health sciences, agriculture, and natural resources)
 - since 2001-02, the percentage of STEM degrees awarded (narrowly defined) has dropped on all campuses;
 - the percentage of broadly defined STEM degrees has increased on all campuses, except MSU Northern.

Definitions

STEM (Narrow): based on STEM definition used by the National Center for Education Statistics; utilizes two digit CIP codes in the areas of (14) Engineering and (15) Engineering Technologies, (11) Computer & Information Sciences, (26) Biological and Biomedical Sciences, (27) Mathematics and Statistics, (40) Physical Sciences, and (41) Science Technologies

STEM (Broad): An expanded STEM definition based on two digit CIP codes in the areas of: (03) Natural Resources and Conservation, (14) Engineering and (15) Engineering Technologies, (11) Computer & Information Sciences, (26) Biological and Biomedical Sciences, (01) Agriculture Operations & Related Sciences, (27) Mathematics and Statistics, (40) Physical Sciences, (41) Science Technologies, and (51) Health Professions and Related Clinical Sciences. Also the following 6 digit CIPs were included, Education Science (MSU) 13.1316, Technical Communications (Tech) 23.1303, Interdisciplinary Studies (Tech) 30.9999