

May 27, 2021

Articulation Agreement

Offered collaboratively by

MONTANA TECHNOLOGICAL UNIVERSITY

And

MILES COMMUNITY COLLEGE

Bachelor of Science in Civil Engineering

I. Scope of Program

Montana Technological University (Montana Tech) and Miles Community College (MCC) hereby establish an articulation agreement leading to a Bachelor of Science degree in Civil Engineering (CE.) The degree will be conferred by Montana Tech.

II. Length of Agreement

This agreement is made and entered into in the academic year of 2020-2021 and will be reviewed annually. The agreement may be amended with the approval of both parties. If either curricula changes, it is the responsibility of the respective institutions department head to reach out to the liaison between schools to update and re-evaluate revisions or additions made in the program.

III. Course Articulation

Students completing the Associate of Science degree in the Science, Technology, Engineering and Math (STEM) pathway at MCC, successfully completing the courses outlined in the curriculum worksheet in the appendix, will be granted 45 semester credits at Montana Tech from their MCC transcripts. Students from MCC not completing the full AS in STEM will be evaluated on a course by course basis, with known equivalences and substitutions noted in the appendix. Graduation from Montana Tech requires completion of general education courses, some or all of which may be part of the 45 credits transferred in from MCC. The student must earn a total of 128 credits, complete the CE program courses and all graduation requirements in order to graduate from Montana Tech and be awarded a Bachelor of Science in Civil Engineering. The outline of course requirements, transfer credit, and pre-approved substitutions are included as an appendix. The credits noted in parentheses for each term, typed in red, are the credits remaining to be completed that term after MCC course equivalences or substitutions are applied. Students participating in this program will be required to meet the Montana University System's transfer student policies in effect at the time of the student's most current enrollment at MCC. Course equivalences must be applied towards the appropriate catalog curriculum. For catalog details, refer to Montana Board of Regents of Higher Education Policy and Procedures Manual; Subject Academic Affairs; Policy 301.14.

Montana Tech's Bachelor of Science degree in Civil Engineering is accredited by the Engineering Accreditation Commission (EAC) of ABET and MT Tech is regionally accredited through the Northwest Commission on Colleges and Universities (NWCCU). MCC is regionally accredited through the Northwest Commission on Colleges and Universities (NWCCU).

IV. Department Contacts and Marketing

Both MCC and Montana Tech agree to the following:

- a. Both parties may inform potential students about the program. Examples include, but are not limited to, media announcements, brochures, information sessions, and advising sessions.
- b. Provide points of contact for each institution:

Miles Community College
Erin Niedge
Dean of Enrollment Management and
Educational Support Services

Montana Tech
Debbie Luft
Senior Admissions Representative

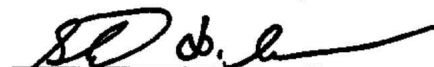
V. Signatures

Miles Community College

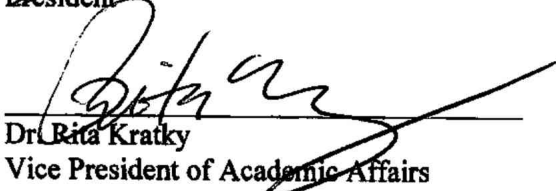
Montana Tech



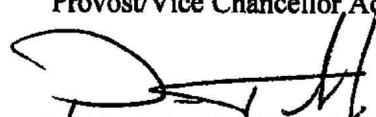
Ron Slinger
President




Dr. Steven Gammon
Provost/Vice Chancellor Academic Affairs




Dr. Rita Kratky
Vice President of Academic Affairs



Dr. Daniel Trudnowski
Dean of the School of Mines & Engineering



Sarah Kloewer
Division Chair

 5/27/2021

Dr. Matthew Donnelly
Acting Department Head, Civil Engineering

Appendix

Transfer Plan with Miles Community College

MT Tech Catalog: 2020-2021 Catalog Program: Civil Engineering, B.S.				
Student ID: _____		Student Name: _____		
Adviser Name: _____				
Civil Engineering B.S.				
Freshman				
Fall Semester				
Course Name	MT Tech Credits	Term Taken	Gen Ed	MCC course
CHMY 141 - College Chemistry I	3 credits	MCC		
CHMY 142 - College Chemistry Laboratory I	1 credit	MCC		
EGEN 101 - Introduction Engineering Calculations & Problem Solving	3 credits	MCC		
M 171 - Calculus I	3 credits	MCC		
Humanities Elective 3 credits	3 credits	MCC	HUM	
EGEN 194 - Freshman Engineering Seminar	1 credit	MCC		COLS 101
WRIT 121 - Introduction To Technical Writing	3 credits	MCC		
-OR-				
WRIT 101 - College Writing I	3 credits			
Total: 17 (0)				
Spring Semester				
Course Name	Credits	Term Taken	Gen Ed	MCC course
M 172 - Calculus II	3 credits	MCC		
PHSX 234 - General Physics-Mechanics	3 credits	MCC		PHSX 220 - Physics I (w/calculus)
Humanities Elective 3 credits	3 credits	MCC	HUM	
CHMY 143 - College Chemistry II	3 credits	MCC		
-OR-				
OSH 224 - Safety and Health Occupations and Programs	3 credits			
-OR-				
OSH 226 - Safety Engineering & Technology	3 credits			
GEO 101 - Introduction to Physical Geology	3 credits	MCC		
-OR-				
BIOE 185 - Environmental & Ecological Issues	3 credits			
Total: 15 (0)				
Pre-Sophomore				
Summer Semester				
EGEN 201 - Engineering Mechanics-Statics	3 credits	Summer 0		
M 273 - Multivariable Calculus	4 credits	Summer 0		
Sophomore				
Fall Semester				
Course Name	Credits	Term Taken	Gen Ed	MCC course
PHSX 235 - General Physics-Heat, Sound & Optics	3 credits	Fall 1		
PHSX 236 - General Phy-Heat, Sound & Optics Lab	1 credit	MCC		PHSX 221 - Physics I Lab
ECIV 215 - Introduction to Modeling for Civil Engineers	1 credit	Fall 1		
ECIV 208 - Construction Contracts and Introduction to Construction	3 credits	Fall 1		
EGEN 202 - Engineering Mech-Dynamics	3 credits	Fall 1		
M 274 - Introduction to Differential Equation	3 credits	Fall 1		
ECNS 201 - Principles of Microeconomics	3 credits	MCC	SS	
-OR-				
ECNS 202 - Principles of Macroeconomics	3 credits			
-OR-				
ECNS 203 - Principles of Micro and Macro	3 credits			
Total: 17 (13)				
Spring Semester				
Course Name	Credits	Term Taken	Gen Ed	MCC course
WRIT 321W - Advanced Technical Writing	3 credits	Spring 1		
EGEN 325 - Engineering Economic Analysis	3 credits	Spring 1		
PHSX 237 - General Physics-Electricity, Magnetism & Motion	3 credits	MCC		PHSX 222 - Physics II (w/calculus)
ECIV 225 - Civil Engr Plans, Details, and Specifications	3 credits	Spring 1		

EGEN 305 - Mechanics of Materials (equiv 205)	3 credits	Spring 1			
ECIV 307 - Construction Bidding and Estimating	3 credits	Spring 1			
Total: 18 (15)					
Junior					
Fall Semester					
Course Name	Credits	Term Taken	Gen Ed	MCC course	
EGEN 306 - Mechanics of Materials Laboratory	1 credit	Fall 2			
STAT 332 - Statistics for Scientists and Engineers	3 credits	Fall 2			
EGEN 335 - Fluid Mechanics	3 credits	Fall 2			
EGEN 336 - Fluid Mechanics Lab	1 credit	Fall 2			
ECIV 312 - Structures I	3 credits	Fall 2			
ECIV 407 - Building Inspections	3 credits	Fall 2			
MIN 210 - Plane Surveying	3 credits	Fall 2			
Total: 17 (17)					
Spring Semester					
Course Name	Credits	Term Taken	Gen Ed	MCC course	
Professional Elective 3 credits*	3 credits	Spring 2			
ECIV 405 - Construction Project Planning and Scheduling (Or ECIV 505)	3 credits	Spring 2			
ECIV 350 - Transportation Engineering	3 credits	Spring 2			
ECIV 440 - Structural Design	3 credits	Spring 2			
Total: 12 (12)					
Senior					
Fall Semester					
Course Name	Credits	Term Taken	Gen Ed	MCC course	
ECIV 486 - Soil Mechanics & Foundation Design	3 credits	Fall 3			
ECIV 302 - Temporary Structures	3 credits	Fall 3			
ECIV 431 - Open Channel Hydraulics	3 credits	Fall 3			
ECIV 458 - F.E. Review for Civil Engineers	1 credit	Fall 3			
ECIV 489W - Civil Engineering Design I	2 credits	Fall 3			
Free Elective 3 credits	3 credits	MCC		COMX 111	
Total: 15 (12)					
Spring Semester					
Course Name	Credits	Term Taken	Gen Ed	MCC course	
Social Science Elective 3 credits	3 credits	MCC	SS		
ECIV 499W - Capstone: Civil Engineering Design II	1 credit	Spring 3			
ECIV 443 - Hydraulic Structures (Or ECIV 543)	3 credits	Spring 3			
EENV 460W - Energy & Sustainability	3 credits	Spring 3			
Total: 10 (7)					
Minimum credits for a B.S. degree in Civil Engineering if transferring from MCC with A.S. in STEM:					
83					
Minimum credits for a B.S. degree in Civil Engineering: 128					
Notes:					
* 3 Professional Elective credits required. Approved Professional Electives include: EENV 402 <i>Surface Water Hydrology</i> 3 cr., OSH 324 <i>Construction Safety</i> 3 cr., ECIV 487 <i>Soil Mechanics and Foundations Lab</i> 1 cr, or Internship (Must be of junior or senior standing, 1 to 2 credits). Additional courses that are offered in the Fall or spring semesters by the Geological Engineering and Civil Engineering departments at the 300 level or higher, may also be used as a professional elective; where not required elsewhere in the curriculum (presuming the pre-requisites and co-requisites are otherwise met).					