MONTANA
TECHNOLOGICAL UNIVERSITY
Mechanical Engineering

# Transfer Articulation Agreement

Offered collaboratively by: Flathead Valley Community College (FVCC) and Montana Technological University for Mechanical Engineering, B.S. Degree

Effective Period: Spring 2024 – Spring 2027

## I. PURPOSE

Flathead Valley Community College (FVCC) and Montana Tech (MT Tech) hereby establish a transfer agreement that provides FVCC students who have earned an Associate of Science the opportunity to complete a Bachelor of Science in Mechanical Engineering. The degree will be conferred by MT Tech.

## II. LENGTH OF AGREEMENT

The Agreement will begin Spring 2024 and will continue for a minimum of three (3) years. The parties to this Agreement commit to offering this program until this Agreement expires or is terminated as set forth in this document. The parties commit to a regular review and evaluation of this Agreement every three (3) years, commencing June 2027, to maintain consistency with the respective degree requirements.

The Agreement may be amended at any time with the approval of both parties. Either party may terminate this Agreement by providing written notice of termination to the other party no less than one year in advance.

## III. COURSE ARTICULATION

Students completing the Associate of Science at FVCC will be granted at least 60 semester credits toward a Bachelor of Science in Mechanical Engineering at MT Tech and will transfer to MT Tech with junior standing so long as they meet the requirements of this Agreement. Students completing the Associate of Science Degree or Associate of Arts Degree will have the general education requirements satisfied. Courses being transferred must have a grade of C or

higher in order to be utilized in this Transfer Agreement. Once matriculated at MT Tech, FVCC students maintaining continuous enrollment under this Agreement will be afforded the same treatment and protection as other MT Tech students. Upon completion of the program shown on Exhibit A, and the MT Tech graduation requirements, a Bachelor of Science degree will be awarded.

## IV. ADMISSIONS

Application and admission information may be found at the following:
https://www.mtech.edu/admissions/transfer/

## V. CONTACT INFORMATION

1) Flathead Valley Community College:

777 Grandview Drive
Kalispell, MT 59901
Main telephone: (406) 756-3822
Toll Free: 1-800-313-3822

Faculty Contact: Effat Rady, (406) 756-3375; erady@fvcc.edu

Registrar: Amy Kanewischer, (406) 756-3845; akanewis@fvcc.edu

Vice President, Academic and Student Affairs: Bryan Brophy-Baermann, (406) 756-4326, bbaermann@fvcc.edu

2) Montana Tech:

1300 West Park Street
Butte, MT 59701
Toll Free: 1-800-445-8324

Faculty Contact:
Interim Department Head, Mechanical Engineering: Richard LaDouceur, (406) 496-4186; rladouceur@mtech.edu

Registrar: Heather Skocilich, (406) 496-4868; hskocilich@mtech.edu

Interim Dean, Lance College of Mines and Engineering: Jack Skinner, (406) 496-4460; jskinner@mtech.edu

Provost & Executive Vice Chancellor/Academic Affairs: Tim Elgren, (406) 496-4127; telgren@mtech.edu

# TRANSFER AGREEMENT APPROVAL

Participating Institution: Montana Tech

Articulated Program: Mechanical Engineering, B.S.

Degree/Credential: Bachelor of Science

Effective Dates: Start: Spring 2024 Renew: Fall 2027

The undersigned have read and concur with the applicable policies and procedures for the attached Transfer Agreement.

**FVCC**

Effat Rady 12/16/2024

Effat Rady, Professor, Engineering/Mathematics & Program Coordinator

Bryan E. Brophy-Baermann 12/17/2024

Bryan Brophy-Baermann, Vice President, Academic and Student Affairs

**Montana Tech**

11-25-24

Richard LaDouceur, Interim Department Head, Mechanical Engineering

Jack L Skinner Dec 3, 2024

Jack Skinner, Interim Dean, Lance College of Mines and Engineering

12/11/24

Tim Elgren, Provost & Executive Vice Chancellor/Academic Affairs

EXHIBIT A

## General Education / Degree Requirements:

| MT Tech Program Courses | FVCC Equivalent Courses | Notes |
|---|---|---|
| CHMY 141 - College Chemistry I *3 credits*<br>CHMY 142 - College Chemistry Laboratory I *1 credit* | CHMY 141NL - College Chemistry I 5 *credits* | FVCC Gen Ed NL = 5 credits |
| CHMY 143 - College Chemistry II *3 credits*<br>CHMY 144 - College Chemistry Laboratory II *1 credit* | CHMY 143NL - College Chemistry II *5 credits* | FVCC Gen Ed NL = 5 credits |
| M 171 - Calculus I *3 credits* | M 171M - Calculus I *5 credits* | FVCC Gen Ed M = 5 credits |
| M 172 - Calculus II *3 credits* | M 172M - Calculus II *5 credits* | FVCC Gen Ed M = 5 credits |
| M 273 - Multivariable Calculus *4 credits* | M 273M - Multivariable Calculus *5 credits* | FVCC Gen Ed M = 5 credits |
| M 274 - Introduction to Differential Equation *3 credits* | M 274M - Introduction to Differential Equations *4 credits* | FVCC Gen Ed M = 4 credits |
| M333-Introduction to Linear Algebra *3 credits* | M 221- Introduction to Linear Algebra *4 credits* | |
| PHSX 234 - General Physics-Mechanics<br>PHSX 235 & 236 - General Physics-Heat, Sound & Optics & Lab<br>PHSX 237 & 238 - General Physics-Electricity, Magnetism & Motion & Lab *11 credits* | PHSX 220NL - Physics I (with Calculus)<br>&<br>PHSX 222NL - Physics II (with Calculus)<br>*10 credits* | FVCC Gen Ed NL = 5 credits<br>FVCC Gen Ed NL = 5 credits |
| WRIT 121 - Introduction To Technical Writing *3 credits - OR*<br>WRIT 101 - College Writing I *3 credits* | WRIT 121- Introduction to Technical Writing *3 credits - OR*<br>WRIT 101W - College Writing *3 credits* | FVCC Gen Ed W = 3 credits |
| ECNS 201 - Principles of Microeconomics *3 credits*<br>*or*<br>ECNS 202 - Principles of Macroeconomics *3 credits* | ECNS 201B - Principles of Microeconomics *3 credits*<br>*or*<br>ECNS 202B - Principles of Macroeconomics *3 credits* | FVCC Gen Ed B = 3 credits |
| Social Science Core *3 credits* | Social Science A Elective *3 credits* | FVCC Gen Ed A = 3 credits |
| Humanities Elective *3 credits* | Humanities Elective *3 credits* | FVCC Gen Ed H = 3 credits |
| Humanities Elective *3 credits* | Humanities Elective or Fine Arts Elective *3 credits* | FVCC Gen Ed H or F = 3 credits |
| | Global Issues Elective *3 credits* | FVCC Gen Ed G = 3 credits |

## Engineering Courses:

| MT Tech Program Courses | FVCC Equivalent Courses | Notes |
|---|---|---|
| EGEN 101 - Introduction Engineering Calculations & Problem Solving *3 credits* | EGEN 111-Engineering Communications *3 credits* | |
| EGEN 194 - Freshman Engineering Seminar *1 credit* | EGEN 105 - Introduction to General Engineering *1 credit* | |
| EMEC 215 - Introduction to Modeling for Mechanical Engineers *1 credit* | DDSN 135 - Solidworks *3 credits* Or EMEC 103 *3 credits* | |
| EGEN 213 - Survey of MET & MAT Eng *3 credits* | EMEC 250 - Mechanical Engineering Materials *3 credits* | |
| EGEN 201 - Engineering Mechanics: Statics *3 credits* | EGEN 201 - Engineering Mechanics: Statics *4 credits* | |
| EGEN 202 - Engineering Mechanics: Dynamics *3 credits* | EGEN 202 - Engineering Mechanics: Dynamics *4 credits* | |
| EGEN 305-Mechanics of Materials: *3 credits* | EGEN 205 - Mechanics of Materials *4 credits* | |
| EELE 201 - Circuits I for Engineering *3 credits* EELE 202 - Circuits I for Engineering Lab *1 credit* | EELE 201 - Circuits I for Engineering *4 credits* | |
| CSCI 117 - Programming with Matlab *3 credits* | EGEN 207 Programming and Numerical Analysis in Matlab for Engineers and Scientists *3 credits* | |
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