

## **MET 2<sup>nd</sup> Bachelor's Degree Course Requirements (when combined with ME program)**

Mechanical Engineering Students in the 2023-2024 catalog must meet the following requirements to qualify for a 2<sup>nd</sup> Bachelor of Science Degree in Mechanical Engineering Technology (MET).

*Complete the following courses:*

Course Number	Title	Credits	Date Completed / Comments
ETME 203	Mechanical Design Graphics	3	
ETME 310	Machining and Industrial Safety	3	
ETME 311	Joining Processes	3	
ETME 340	Mechanisms	3	
ETME 303	CAE Tools in Mech. Design	3	
ETME 362	App Elec & Power for Mech Sys	3	
ETME 422	Principles of HVAC I	3	
ETME 415	Design for Manufacturing & Tooling	3	
ETME 424	Thermal Processes Lab	1	

*In addition, each student must complete a minimum of two professional elective courses (6 credits) selected from the following list:*

Course	Title	Credits	Date Completed / Comments
ETME 309	Building Information Modeling in MEP	6	
ETME 327	Energy Assessment Lab		
ETME 410	CNC & CAM Technology		
ETME 423	Principles of HVAC II		
ETME 430	Fluid Power Systems Design		
ETME 462	Industrial Process Automation		
ETME 470	Renewable Energy Applications		
ETME 460	Advanced Instrumentation		
ETME 498	Internship		

*MET as a 2<sup>nd</sup> Major students should be enrolled in an EMEC 489 /499 group that includes MET students enrolled in ETME 489 / 489.*

**Total Additional credits = 31 of which 28 are upper division (university requirement is 30 additional credits, of which 9 are upper division)**

*Students also must meet all university requirements (<http://www.montana.edu/wwwcat/requirements/reqs2.html>), as well as complete an Application for a Second Major Form:*

[http://www.montana.edu/registrar/documents/pdfs/2nd\\_major\\_app.pdf](http://www.montana.edu/registrar/documents/pdfs/2nd_major_app.pdf)

**Applicant Name:** \_\_\_\_\_ **GID:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Approvals:**

MET Advisor                      Signature: \_\_\_\_\_                      Date: \_\_\_\_\_

ME Advisor                        Signature: \_\_\_\_\_                      Date: \_\_\_\_\_

Department Head:                Signature: \_\_\_\_\_                      Date: \_\_\_\_\_

Recommended Schedule:

*MET as a Second Bachelor's Degree for ME majors*  
 2023-2024 Catalog (9/27/2023)  
 Recommended Course Planning Schedule

**Year 1**

Fall	Cr.	Spring	Cr.
EMEC 100	1	PHSX 222	4
		CHMY 141	3
EMEC 103	2	CHMY 142	1
M 171Q	4	M 172	4
US Core	3	W Core	3
PHSX 220	4	Core 2	3
Core 1	3		
	17		18

**Year 3**

Fall	Cr.	Spring	Cr.
EMEC 341	3	EMEC 342	3
EGEN 350	2		
		EELE 250	4
EGEN 335	3		
EMEC 303	3	EGEN 310R	3
ETME 310	3	ETME 340	3
ETME 311	3	ETME 362	3
	17		16

**Year 5**

Fall	Cr.	Spring	Cr.
EMEC 489	2	EMEC 499	3
EMEC 445	3	Core #4	3
ME PE #2	3	ME PE #3	3
ETME 422	3		
ETME 424	1		
MET PE #2	3	ME PE #4	3
		ENGR 499	0
	15		12

**Year 2**

Fall	Cr.	Spring	Cr.
CORE 3	3	EGEN 205	3
EGEN 201	3	EGEN 202	3
M 273	4	M 274	4
EMEC 250	3	ETME 215	3
EMEAT 252	1	ETME 216	1
EMEC 203	2		
		ETME 203	3
	16		17

**Year 4**

Fall	Cr.	Spring	Cr.
ETME 303	3	EGEN 330	3
EMEC 360	3	EMEC 405	3
EMEC 361	1	EMEC 321	3
EMEC 320	3		
ETME 415	3	EMEC 326	3
ME PE #1	3	MET PE #1	3
	16		15

ME Total Credits = 128  
 MET 2nd Degree Credits = 31  
 Total Credits = 159