

Mechanical Engineering

Minor Contact

- Statler College (Statler-StudentServices@mail.wvu.edu)

MINOR CODE - U221

Any student may take a minor in mechanical engineering by passing the following courses and maintaining a 2.0 GPA or better in these courses.

The minor is open to all students with the prerequisite coursework, which includes MATH 155, MATH 156, and PHYS 111. Students also may need to complete MATH 251 and MATH 261 for completion of the minor.

Code	Title	Hours
A minimum of 9 credits must be 300 or 400 level		
MAE 241	Statics	3
Select 12 credit hours from the following courses. **		12
MAE 242	Dynamics	
MAE 243	Mechanics of Materials	
MAE 244L	Dynamics and Strength Laboratory	
MAE 253	Fundamentals of Materials Engineering	
MAE 254L	Materials Engineering Laboratory	
MAE 271S	Mechanical and Aerospace Engineering Design 1 *	
MAE 312	Introduction to Mechanical Design	
MAE 316	Analysis-Engineering Systems	
MAE 320	Thermodynamics	
MAE 321	Applied Thermodynamics	
MAE 322L	Thermal and Fluids Laboratory	
MAE 331	Fluid Mechanics	
MAE 342	Dynamics of Machines	
MAE 353	Intermediate Mechanics of Materials	
MAE 371S	Mechanical and Aerospace Engineering Design 2 *	
MAE 422L	Energy Conversion Laboratory	
MAE 423	Heat Transfer	
MAE 425	Internal Combustion Engines	
MAE 427	Heating, Ventilating, and Air Conditioning	
MAE 433	Computational Fluid Dynamics	
MAE 442	Mechanical Vibrations	
MAE 446	Mechanics of Composite Materials	
MAE 454	Machine Design and Manufacturing	
MAE 456 & 456L	Computer-Aided Design and Finite Element Analysis and Computer-Aided Design and Finite Element Analysis Laboratory	
MAE 459	Hybrid Electric Vehicle Propulsion and Control	
MAE 460	Automatic Controls	
Total Hours		15

*

MAE 271S and MAE 371S require departmental approval. Contact the instructor of record for more details.

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Related Special Topics courses (MAE 393 and MAE 493) may be used if approved by the Mechanical Engineering Curriculum Committee.