Aerospace Engineering

Minor Contact

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

MINOR CODE - U220

Any student may take a minor in aerospace 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 215	Introduction to Aerospace Engineering	
MAE 242	Dynamics	
MAE 243	Mechanics of Materials	
MAE 275S	Aerospace Design 1	
MAE 316	Analysis-Engineering Systems	
MAE 320	Thermodynamics	
MAE 331	Fluid Mechanics	
MAE 335	Incompressible Aerodynamics	
MAE 336	Compressible Aerodynamics	
MAE 345	Aerospace Structures	
MAE 353	Intermediate Mechanics of Materials	
MAE 361	Introduction to Unmanned Aerial Systems	
MAE 365	Flight Dynamics	
MAE 375S	Aerospace Design 2	
MAE 426	Flight Vehicle Propulsion	
MAE 433	Computational Fluid Dynamics	
MAE 434 & 434L	Experimental Aerodynamics and Experimental Aerodynamics Laboratory	
MAE 437	Vertical/Short Takeoff and Landing Aerodynamics	
MAE 446	Mechanics of Composite Materials	
MAE 447	Aeroelasticity	
MAE 457	UAV Path Planning and Trajectory Tracking	
MAE 460	Automatic Controls	
MAE 465	Flight Mechanics 2	
MAE 466	Spacecraft Dynamics	
MAE 467	Introduction to Flight Simulation	
MAE 469	UAV Guidance, Navigation & Control	
MAE 476	Space Flight and Systems	
MAE 478	Guided Missile Systems	
MAE 482	Flight Simulation for Aircraft Safety	
MAE 484	Spacecraft Propulsion	
Total Hours		15

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MAE 275S and MAE 375S 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.