

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 |

*
MAE 275S and MAE 375S require departmental approval. Contact the instructor of record for more details.

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