THE UNIVERSITY OF RHODE ISLAND
COLLEGE OF ENGINEERING

AEROSPACE ENGINEERING MINOR

THINK BIG WE DO

1. The Aerospace Engineering Minor requires 18 credits. Students must complete at least two Required Courses (6–9 credits), at least one Aerospace Elective Course (3–12 credits), and any remaining credits needed to reach 18 credits from the General Elective Courses (0–9 credits).
2. The minor is particularly well-suited for students majoring in Mechanical Engineering. Students from other engineering or closely related disciplines may also pursue the minor, provided they meet the prerequisites for the minor's courses.
3. Students must be enrolled in a degree program within the College of Engineering or a closely related discipline. To declare the Aerospace Engineering Minor, students must complete the Minor Declaration Form, obtain the program coordinator's approval, and submit the form to the College of Engineering Student Success Office. A minimum cumulative GPA of 2.50 is required at the time of declaration.

Required Courses (6–9 credits)

Students must complete at least two of the following aerospace courses.

- MCE 457 – Aerodynamics (3 credits)
- MCE 458 – Aeroelasticity (3 credits)
- MCE 569 – Shockwaves & Structures (3 credits)

Aerospace Elective Courses (3–12 credits)

Students must complete at least one of the following aerospace courses.

- MCE 437 – Turbomachinery Design (3 credits)
- MCE 440 – Mechanics of Composite Materials (3 credits)
- MCE 474 – Space Nuclear Propulsion and Power (3 credits)
- MCE 539 – Chemical Rocket Propulsion (3 credits)

General Elective Courses (0–9 credits)

Students may select from the following electives to complete the 18-credit requirement.

Focus Area	Course	Course Title
Structural Mechanics	MCE 426	Advanced Mechanics of Materials
	MCE 466	Introduction to Finite Element Methods
Fluids/Thermo	MCE 455	Advanced Fluid Mechanics
	MCE 471	Nuclear Reactor Engineering
	OCE 518	Computational Hydrodynamics
System Dynamics	MCE 431	Control Systems
	MCE 464	Vibrations
Robotics	MCE 433	Mechatronics
	MCE 456	Foundations of Robotics

Conditional Elective

MCE 491 or 492 – Special Problems (up to 3 credits)

May count toward the minor as an elective if the project or research topic is focused on aerospace applications and demonstrates a direct connection to the physical principles covered in the minor's required and core courses. For a non-Mechanical Engineering major, the student may substitute the department's equivalent design or independent study course, provided the project meets the same aerospace-focused criteria and has written support from the course instructor.

THE UNIVERSITY OF RHODE ISLAND
COLLEGE OF ENGINEERING

AEROSPACE ENGINEERING MINOR FORM

THINK BIG WE DO

Name: _____ Student ID #: _____

Major: _____ Intended Graduation Date: _____

URI Email: _____ Cumulative GPA: _____

Name of Minor: Aerospace Engineering

Course Number	Course Title	# Credits	Grade

Total Credits: _____ / 18

_____ _____
Aerospace Engineering Minor Program Coordinator Signature Date

_____ _____
Assistant Dean of Engineering Signature Date

Program Coordinator

Helio Matos, Associate Professor
Department of Mechanical, Industrial and Systems Engineering
University of Rhode Island
401.874.4556 | hmatos@uri.edu

Once you've obtained the signatures above, please submit this form via the COE Online portal or drop-off at Bliss Hall 420.

COE Online Portal: bit.ly/uri_coe_forms

Engineering Student Success Center, Bliss Hall 420
(401) 874-5985 | coe-forms@uri.edu