AEROSPACE ENGINEERING, BS

for the degree of Bachelor of Science in Aerospace Engineering

The Aerospace Engineering curriculum provides a strong fundamental background in engineering, mathematics, and science, along with the ability to apply this fundamental knowledge to the analysis and design of future aircraft and spacecraft. It also prepares students for lifelong learning and the attainment of their career goals in the field of aerospace engineering and in a wide range of other areas. The concepts of system design are introduced early in the curriculum and culminate in the yearlong senior capstone design experience (AE 442, AE 443), in which students work in teams to respond to a design challenge from industry, government, or a professional engineering society. Technical and free electives allows the student to pursue an individualized program of study.

Current Program Educational Objectives
for the degree of Bachelor of Science in Aerospace Engineering

Graduation Requirements
Minimum Overall GPA: 2.0
Minimum hours required for graduation: 128 hours
General education: Students must complete the Campus General Education (https://courses.illinois.edu/gened/DEFAULT/DEFAULT/) requirements including the campus general education language requirement. AE 442 and AE 443 will satisfy Aerospace Engineering Technical Core requirements and the Campus General Education Advanced Composition requirement.

Orientation and Professional Development

<table>
<thead>
<tr>
<th>Code</th>
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<tr>
<td>AE 100</td>
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<tr>
<td>ENG 100</td>
<td>Grainger Engineering Orientation Seminar (External transfer students take ENG 300.)</td>
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Foundational Mathematics and Science

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<tr>
<td>CHEM 102</td>
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<td>CHEM 103</td>
<td>General Chemistry Lab I</td>
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<td>MATH 221</td>
<td>Calculus I (MATH 220 may be substituted. MATH 220 is appropriate for students with no background in calculus. 4 of 5 credit hours count towards degree.)</td>
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<tr>
<td>MATH 231</td>
<td>Calculus II</td>
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<td>Calculus III</td>
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<tr>
<td>MATH 257</td>
<td>Linear Algebra with Computational Applications</td>
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<td>MATH 285</td>
<td>Intro Differential Equations</td>
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<td>PHYS 211</td>
<td>University Physics: Mechanics</td>
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<td>PHYS 212</td>
<td>University Physics: Elec &amp; Mag</td>
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Aerospace Engineering Technical Core

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<td>AE 202</td>
<td>Aerospace Flight Mechanics</td>
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<tr>
<td>AE 311</td>
<td>Incompressible Flow</td>
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<td>AE 312</td>
<td>Compressible Flow</td>
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<tr>
<td>AE 321</td>
<td>Mechs of Aerospace Structures</td>
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<td>AE 323</td>
<td>Applied Aerospace Structures</td>
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<tr>
<td>AE 352</td>
<td>Aerospace Dynamical Systems</td>
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<td>AE 353</td>
<td>Aerospace Control Systems</td>
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<tr>
<td>AE 370</td>
<td>Aerospace Numerical Methods</td>
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<tr>
<td>AE 433</td>
<td>Aerospace Propulsion</td>
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Information listed in this catalog is current as of 10/2022
or AE 434
AE 442 Aerospace Systems Design I
AE 443 Aerospace Systems Design II
AE 460 Aerodynamics & Propulsion Lab
AE 461 Structures & Control Lab
AE 483 Autonomous Systems Lab
CS 101 Intro Computing: Engrg & Sci (CS 124 may be taken instead of CS 101.)
ECE 205 Electrical and Electronic Circuits
ME 200 Thermodynamics
MSE 280 Engineering Materials
TAM 210 Introduction to Statics
TAM 212 Introductory Dynamics

Total Hours 58

Technical Electives

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<td>AE 403</td>
<td>Spacecraft Attitude Control</td>
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<td>AE 410</td>
<td>Computational Aerodynamics</td>
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<td>AE 412</td>
<td>Viscous Flow &amp; Heat Transfer</td>
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<td>Applied Aerodynamics</td>
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<td>AE 419</td>
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<td>AE 420</td>
<td>Finite Element Analysis</td>
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<td>AE 428</td>
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<td>AE 435</td>
<td>Electric Space Propulsion</td>
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<tr>
<td>AE 451</td>
<td>Aeroelasticity</td>
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<tr>
<td>AE 454</td>
<td>Systems Dynamics &amp; Control</td>
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<td>AE 456</td>
<td>Global Nav Satellite Systems</td>
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<tr>
<td>AE 468</td>
<td>Optical Remote Sensing</td>
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<tr>
<td>AE 482</td>
<td>Introduction to Robotics</td>
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<tr>
<td>AE 484</td>
<td>UAV Performance, Design, and Fabrication</td>
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<tr>
<td>AE 485</td>
<td>Spacecraft Environment and Interactions</td>
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<tr>
<td>AE 497</td>
<td>Independent Study</td>
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<tr>
<td>AE 498</td>
<td>Special Topics</td>
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<td>ENG 491</td>
<td>Interdisciplinary Design Proj (CU1 &amp; CU2)</td>
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Non-AE Technical Electives below

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<td>ASTR 405</td>
<td>Planetary Systems</td>
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<tr>
<td>ASTR 406</td>
<td>Galaxies and the Universe</td>
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<td>ASTR 414</td>
<td>Astronomical Techniques</td>
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<tr>
<td>ATMS 301</td>
<td>Atmospheric Thermodynamics</td>
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<tr>
<td>ATMS 302</td>
<td>Atmospheric Dynamics I</td>
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<tr>
<td>ATMS 303</td>
<td>Synoptic-Dynamic Wea Analysis</td>
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<td>ATMS 304</td>
<td>Radiative Transfer-Remote Sens</td>
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<td>ATMS 305</td>
<td>Computing and Data Analysis</td>
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<td>ATMS 306</td>
<td>Cloud Physics</td>
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<td>ATMS 313</td>
<td>Synoptic Weather Forecasting</td>
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<td>ATMS 406</td>
<td>Tropical Meteorology</td>
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<td>ATMS 410</td>
<td>Radar Remote Sensing</td>
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Information listed in this catalog is current as of 10/2022
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<td>CEE 360</td>
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<td>CEE 380</td>
<td>Geotechnical Engineering</td>
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<td>Airport Design</td>
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<td>CEE 412</td>
<td>High-Speed Rail Engineering</td>
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<td>Environmental Fluid Mechanics</td>
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<td>CHEM 232</td>
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<td>Elementary Organic Chem Lab I</td>
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<td>CHEM 236</td>
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<td>CS 225</td>
<td>Data Structures</td>
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<td>User Interface Design</td>
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<td>Numerical Thermo-Fluid Mechs</td>
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<td>Analog Signal Processing</td>
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<td>ECE 220</td>
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<td>ECE 342</td>
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<td>ECE 385</td>
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<td>ECE 473</td>
<td>Fund of Engrg Acoustics</td>
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<td>Control Systems</td>
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<td>Interdisciplinary Design Proj (Sections SAE and HYP)</td>
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<td>MSE 401</td>
<td>Thermodynamics of Materials</td>
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<td>MSE 440</td>
<td>Mechanical Behavior of Metals</td>
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<td>Design of Engineering Alloys</td>
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<td>SE 310</td>
<td>Design of Structures and Mechanisms</td>
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<td>Digital Control Systems</td>
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<td>Mechatronics</td>
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<td>IE 310</td>
<td>Deterministic Models in Optimization</td>
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<td>MATH 347</td>
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<td>MATH 402</td>
<td>Non Euclidean Geometry</td>
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<td>Intro to Combinatorics</td>
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<td>MATH 416</td>
<td>Abstract Linear Algebra</td>
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<td>ME 401</td>
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Aerospace Engineering, BS

MSE 450   Polymer Science & Engineering  3 or 4
MSE 453   Plastics Engineering          3
MSE 457   Polymer Chemistry            3 or 4
NPRE 201  Energy Systems               2 or 3
NPRE 402  Nuclear Power Engineering   3 or 4
NPRE 470  Fuel Cells & Hydrogen Sources 3
NPRE 475  Wind Power Systems          3 or 4
NPRE 498  Special Topics (Energy Storage and Conveyance) 1 to 4
PHYS 325  Classical Mechanics I       3
PHYS 326  Classical Mechanics II      3
PHYS 435  Electromagnetic Fields I    3
PHYS 485  Atomic Phys & Quantum Theory 3
PHYS 486  Quantum Physics I           4
STAT 428  Statistical Computing       3 or 4
STAT 448  Advanced Data Analysis      4
TAM 451   Intermediate Solid Mechanics 4
TAM 456   Experimental Stress Analysis 3
TAM 470   Computational Mechanics     3 or 4
TE 401    Developing Breakthrough Projects 1 to 4
TMGT 461  Tech, Eng, & Mgt Final Project 4

Free Electives

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<td>Additional course work, subject to the Grainger College of Engineering restrictions to Free Electives, so that there are at least 128 credit hours earned toward the degree. (<a href="https://go.grainger.illinois.edu/FreeElectives/">https://go.grainger.illinois.edu/FreeElectives/</a>)</td>
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for the degree of Bachelor of Science in Aerospace Engineering

Sample Sequence

The curriculum sequence below is a sample sequence, as all Grainger Engineering students work with a department academic advisor to achieve their educational goals, specific to their needs and preparation. The curriculum sequence can also be viewed via dynamic and static curricular maps ([https://grainger.illinois.edu/academics/undergraduate/majors-and-minors/aerospace-map/](https://grainger.illinois.edu/academics/undergraduate/majors-and-minors/aerospace-map/)), which include prerequisite sequencing.

### First Year

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### Second Year

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<td>TAM 210</td>
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<td>3 TAM 212</td>
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Information listed in this catalog is current as of 10/2022
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### Third Year

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<td>AE 352</td>
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<thead>
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<td>3 AE 461</td>
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<td>AE 433</td>
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<td>AE 461</td>
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<td>AE 460</td>
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<td>Free Elective</td>
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<thead>
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Total Hours 129

1. **MATH 220** (http://catalog.illinois.edu/search/?P=MATH%20220) may be substituted with four of the five credit hours applying toward the degree. **MATH 220** (http://catalog.illinois.edu/search/?P=MATH%20220) is appropriate for students with no background in calculus.

2. Students must take 6 hours from the campus General Education Social and Behavioral Sciences list, 6 hours from campus General Education Humanities and the Arts list, and 6 hours from a liberal education list approved by the college or from the campus General Education lists for Social and Behavioral Sciences or Humanities and the Arts.
   Students must also complete the campus cultural studies requirement by completing (i) one western/comparative culture(s), (ii) one non-western, and (iii) one U.S. minority culture(s) course from the General Education cultural studies lists. Most students select liberal education courses that simultaneously satisfy the Humanities and the Arts and cultural studies course requirements.

3. **RHET 105** (http://catalog.illinois.edu/search/?P=RHET%20105) (or an alternative Composition I sequence) is taken either in the first or second semester of the first year, according to the student's UIN (Spring if UIN is odd). General education elective is taken the other semester. Composition I guidelines can be found at http://catalog.illinois.edu/general-inforamtion/degree-general-education-requirements/ under Written Communication Requirement.

4. Sequence satisfies the General Education Advanced Composition requirement.

5. Technical elective credits totaling twelve hours, selected from a departmentally approved list of Technical Electives (https://aerospace.illinois.edu/academics/undergraduate/undergraduate-tech-electives/), satisfying these distribution requirements: (i) six hours of AE Technical Electives; (ii) six hours of AE Technical Electives or Non-AE Technical Electives.

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Student learning outcomes are based on learning outcomes in line with the ABET accreditation process.

Aerospace Engineering graduates will have:

1. An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
2. An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
3. An ability to communicate effectively with a range of audiences.
4. An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
5. An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
6. An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.
7. An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

for the degree of Bachelor of Science in Aerospace Engineering

Aerospace Engineering Website (https://aerospace.illinois.edu)
Aerospace Engineering Faculty (https://aerospace.illinois.edu/directory/faculty/)
The Grainger College of Engineering Admissions (https://grainger.illinois.edu/admissions/)
The Grainger College of Engineering (https://grainger.illinois.edu/)

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