**Aerospace Engineering (B.S)**

The Aerospace Engineering program at Kennesaw State University offers a strong foundation in engineering, math, and science, preparing students for the design and development of aerospace systems. It combines theory with hands-on experience, culminating in a year-long senior capstone project addressing real-world challenges through team-based work. The program has two concentrations: Aeronautics, focusing on atmospheric vehicles like airplanes and drones, covering aerodynamics, structures, propulsion, and controls; and Astronautics, centered on space systems such as spacecraft, rockets, and satellites, including space travel, orbital mechanics, and communications.

Students gain practical experience with advanced facilities and participate in projects like aircraft, UAVs, and small spacecraft design. Graduates are ready for careers in aerospace, government agencies like NASA and the Air Force, or further studies.

**Program Student Learning Outcomes**

Students who complete this program 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 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.
8. An ability to utilize specialized software adopted in industry to solve complex engineering problems.

**Program Educational Objectives**

Program educational objectives are benchmarks for career and professional accomplishments that the degree program prepares graduates to achieve during the first few years following graduation. Graduates of the Aerospace l Engineering program , after a few years of work experience, will be able to:

1. Apply technical knowledge and innovative problem-solving skills to design, analyze, and improve aerospace systems in aeronautics or astronautics.
2. Engage in ongoing professional development through advanced education, certifications, or active participation in industry and professional societies.
3. Demonstrate leadership, teamwork, and ethical responsibility in diverse settings, promoting excellence, diversity, and integrity within their workplace and community.
4. Contribute positively to society and the aerospace industry by fostering innovation, sustainability, and societal impact through research, mentoring, and professional engagement.

**Aerospace Engineering Standing**

The Mechanical and Aerospace Engineering Department emphasizes academic excellence for all students. Students must secure Engineering Standing before progressing to upper-division coursework. A minimum GPA of 2.7 in selected math, science, and engineering classes is required for eligibility. Please visit [SPCEET Advising](https://www.kennesaw.edu/spceet/advising/index.php) for the complete list of required coursework.

**Application Guidelines:**

* Download and fill out the Engineering Standing application for your associated engineering or non-engineering major.
* Email the completed form to your academic advisor. If needed, contact SPCEETadvising@kennesaw.edu for assistance.

**Apply as an Engineering Major**

To apply for Engineering Standing, download and complete the application for your specific major or if you need engineering standing to pursue a minor, please fill out the standing form for non-engineering majors at the bottom of this page.

After filling out the application, email it directly to your [academic advisor](https://engineering.kennesaw.edu/undergrad-advising/undergrad-advising.php)for processing If there are any issues with it, your advisor will respond accordingly. If you cannot find your advisor’s contact information, please email SPCEETadvising@kennesaw.edu and let us know so we can get you assigned to an advisor.