

Engineering Science

√ Major

Description of the major:

The engineering science program seeks to train problem solvers who can integrate science and engineering principles. Engineering science is the study of the combined disciplines of engineering, the applied sciences and mathematics. This combination of disciplines results in graduates who can bring a deep understanding of science and broad training in engineering design and practice together to solve new challenges.

The student experience:

- Students in the engineering science major focus on general problem solving combined with fundamental scientific and engineering skills and content knowledge.
- Students complete foundation courses in mathematics and basic sciences followed by more advanced courses in engineering and applied science.
- The curriculum focuses on the following core academic competencies:
 - problem solving and communication;
 - epistemological methodologies;
 - design practice; and
 - technical practice.
- Students can merge interest in engineering with other disciplines in the College of Science through a minor or a second major.
- Engineering science majors can also pursue one of the dual degree engineering programs with Clemson University or Horry Georgetown Technical College. See the [University catalog](#) for details.

Beyond the classroom:

Engineering science majors will be prepared for careers in general engineering or graduate school in engineering, applied science or a related discipline. Students will be able to identify, formulate and solve engineering problems; design and conduct experiments; analyze and interpret data; and communicate effectively.

Areas of study:

The University catalog has the complete list of courses for the major. You can find the catalog online at catalog.coastal.edu.

Courses include:

ENGR 201	Engineering Problem Solving
ENGR 202	Engineering Graphics
ENGR 234	Statics
ENGR 235	Electric Circuits
ENGR 399	Integrated Science and Design
PHYS 302	Electricity and Magnetism
PHYS 303	Quantum Mechanics
CSCI 330	Systems Analysis and Software Engineering
CSCI 485	Introduction to Robotics

For more information:

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