

College of Engineering

Dr. James Gregory, Dean

The College of Engineering offers the following degrees at the undergraduate level: Aerospace Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, Mechanical Engineering, Software Engineering, and Computer Science. These programs are known for their depth, rigor and emphasis on project-based learning. Understanding and appreciation of the contemporary social, economic, and global issues an educated person is expected to have is acquired through a comprehensive general education curriculum, study abroad programs, internships/co-ops, student competition projects, and other co-curricular and undergraduate research opportunities.

The bachelor's degree programs in Aerospace Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, Mechanical Engineering, and Software Engineering are accredited by the Engineering Accreditation Commission of ABET, www.abet.org (<http://www.abet.org/>). The bachelor degree program in Computer Science is accredited by the Computing Accreditation Commission of ABET.

The College also offers Master's degrees in all its undergraduate engineering disciplines and doctoral degrees in Aerospace Engineering, Electrical Engineering and Computer Science, and Mechanical Engineering. In addition, the College offers innovative Master's degree programs in Uncrewed and Autonomous Systems Engineering and Computer Science.

Accelerated and Combined programs offer well-qualified students the opportunity to start a Master's degree while still completing their Bachelor's degree, and allow for the crossing of disciplines. Students earn B.S. once all requirements for that degree are met, while still working to complete their M.S.

The College has also responded to Industry's request regarding Airworthiness Engineering. The Certificate of Study program and the Master's degree program educates the working Engineer.

The mission of the College is to:

- Prepare students for successful careers as leaders, innovators, and entrepreneurs in aerospace and related engineering fields;
- Advance engineering through collaborative research; and
- Serve society and the engineering profession from our global perspective, teaching the value of integrity, social responsibility, and a commitment to service.

The vision of the College is:

- To be recognized as a world leader in aerospace and aviation research and for innovative engineering education.

View the Engineering Fundamentals Program (<https://catalog.erau.edu/campuses/daytona-beach/engineering/engineering-fundamentals/>) for information about the common first-year experience.

Bachelor's Degrees

- B.S. in Aerospace Engineering (<https://catalog.erau.edu/programs/undergraduate/bachelors/aerospace-engineering/#daytonabeachtext>)
- B.S. in Civil Engineering (<https://catalog.erau.edu/programs/undergraduate/bachelors/civil-engineering/#daytonabeachtext>)
- B.S. in Computer Engineering (<https://catalog.erau.edu/programs/undergraduate/bachelors/computer-engineering/#daytonabeachtext>)
- B.S. in Computer Science (<https://catalog.erau.edu/programs/undergraduate/bachelors/computer-science/#daytonabeachtext>)
- B.S. in Electrical Engineering (<https://catalog.erau.edu/programs/undergraduate/bachelors/electrical-engineering/#daytonabeachtext>)
- B.S. in Mechanical Engineering (<https://catalog.erau.edu/programs/undergraduate/bachelors/mechanical-engineering/#daytonabeachtext>)

- B.S. in Software Engineering (<https://catalog.erau.edu/programs/undergraduate/bachelors/software-engineering/#daytonabeachtext>)
- B.S. in Systems Engineering (<https://catalog.erau.edu/programs/undergraduate/bachelors/systems-engineering/#daytonabeachtext>)

Minors

- Biomedical Engineering (<https://catalog.erau.edu/programs/undergraduate/minors/biomedical-engineering/>)
- Computer Aided Design/Computer Aided Manufacturing (<https://catalog.erau.edu/programs/undergraduate/minors/computer-aided-design-computer-aided-manufacturing/>)
- Computer Science (<https://catalog.erau.edu/programs/undergraduate/minors/computer-science/>)
- Cybersecurity Engineering (<https://catalog.erau.edu/programs/undergraduate/minors/cyber-security-engineering/>)
- Electrical and Computer Engineering (<https://catalog.erau.edu/programs/undergraduate/minors/electrical-and-computer-engineering/>)
- Robotic Systems (<https://catalog.erau.edu/programs/undergraduate/minors/robotic-systems/>)
- Systems Engineering (<https://catalog.erau.edu/programs/undergraduate/minors/systems-engineering/>)

Combined Program Pathways

- B.S. in Aerospace Engineering/Master of Business Administration (https://catalog.erau.edu/programs/undergraduate/combined-program-pathways/dbsae_dmba/)
- B.S. in Aerospace Engineering/MBA in Aviation Management (https://catalog.erau.edu/programs/undergraduate/combined-program-pathways/dbsae_dmbaam/)
- B.S. in Aerospace Engineering/M.S. in Aerospace Business Analytics (https://catalog.erau.edu/programs/undergraduate/combined-program-pathways/dbsae_dmsaebuan/)
- B.S. in Aerospace Engineering/M.S. in Aerospace Engineering (https://catalog.erau.edu/programs/undergraduate/combined-program-pathways/dbsae_dmsase/)
- B.S. in Aerospace Engineering/M.S. in Aviation Finance (https://catalog.erau.edu/programs/undergraduate/combined-program-pathways/dbsae_dmsaf/)
- B.S. in Aerospace Engineering/M.S. in Data Science (https://catalog.erau.edu/programs/undergraduate/combined-program-pathways/dbsae_dmsds/)
- B.S. in Aerospace Engineering/M.S. in Human Factors (https://catalog.erau.edu/programs/undergraduate/combined-program-pathways/dbsae_dmsfh/)
- B.S. in Civil Engineering/Master of Business Administration (https://catalog.erau.edu/programs/undergraduate/combined-program-pathways/dbsciv_dmba/)
- B.S. in Civil Engineering/M.S. in Civil Engineering (https://catalog.erau.edu/programs/undergraduate/combined-program-pathways/dbsciv_dmsciv/)
- B.S. in Civil Engineering/M.S. in Human Factors (https://catalog.erau.edu/programs/undergraduate/combined-program-pathways/dbsciv_dmsfh/)
- B.S. in Computer Engineering/Master of Business Administration (https://catalog.erau.edu/programs/undergraduate/combined-program-pathways/dbsce_dmba/)
- B.S. in Computer Engineering/MBA in Aviation Management (https://catalog.erau.edu/programs/undergraduate/combined-program-pathways/dbsce_dmbaam/)
- B.S. in Computer Engineering/M.S. in Aerospace Business Analytics (https://catalog.erau.edu/programs/undergraduate/combined-program-pathways/dbsce_dmsaebuan/)

- B.S. in Computer Engineering/M.S. in Aviation Finance (https://catalog.erau.edu/programs/undergraduate/combined-program-pathways/dbsce_dmsaf/)
- B.S. in Computer Engineering/M.S. in Human Factors (https://catalog.erau.edu/programs/undergraduate/combined-program-pathways/dbsce_dmsfh/)
- B.S. in Computer Science/Master of Business Administration (https://catalog.erau.edu/programs/undergraduate/combined-program-pathways/dbscs_dmba/)
- B.S. in Computer Science/MBA in Aviation Management (https://catalog.erau.edu/programs/undergraduate/combined-program-pathways/dbscs_dmbaam/)
- B.S. in Computer Science/M.S. in Aerospace Business Analytics (https://catalog.erau.edu/programs/undergraduate/combined-program-pathways/dbscs_dmsaebuan/)
- B.S. in Computer Science/M.S. in Aviation Finance (https://catalog.erau.edu/programs/undergraduate/combined-program-pathways/dbscs_dmsaf/)
- B.S. in Computer Science/M.S. in Human Factors (https://catalog.erau.edu/programs/undergraduate/combined-program-pathways/dbscs_dmsfh/)
- B.S. in Electrical Engineering/Master of Business Administration (https://catalog.erau.edu/programs/undergraduate/combined-program-pathways/dbsee_dmba/)
- B.S. in Electrical Engineering/MBA in Aviation Management (https://catalog.erau.edu/programs/undergraduate/combined-program-pathways/dbsee_dmbaam/)
- B.S. in Electrical Engineering/M.S. in Aerospace Business Analytics (https://catalog.erau.edu/programs/undergraduate/combined-program-pathways/dbsee_dmsaebuan/)
- B.S. in Electrical Engineering/M.S. in Aviation Finance (https://catalog.erau.edu/programs/undergraduate/combined-program-pathways/dbsee_dmsaf/)
- B.S. in Electrical Engineering/M.S. in Human Factors (https://catalog.erau.edu/programs/undergraduate/combined-program-pathways/dbsee_dmsfh/)
- Any B.S. in Engineering/M.S. in Computer Science (https://catalog.erau.edu/programs/undergraduate/combined-program-pathways/dbs-engineering_dmscs/)
- Any B.S. in Engineering/M.S. in Electrical and Computer Engineering (https://catalog.erau.edu/programs/undergraduate/combined-program-pathways/dbs-engineering_dmsece/)
- Any B.S. in Engineering/M.S. in Mechanical Engineering (https://catalog.erau.edu/programs/undergraduate/combined-program-pathways/dbs-engineering_dmsme/)
- Any B.S. in Engineering/M.S. in Software Engineering (https://catalog.erau.edu/programs/undergraduate/combined-program-pathways/dbs-engineering_dmsse/)
- Any B.S. in Engineering/M.S. in Systems Engineering (https://catalog.erau.edu/programs/undergraduate/combined-program-pathways/dbs-engineering_dmsse/)
- Any B.S. in Engineering/M.S. in Uncrewed and Autonomous Systems Engineering (https://catalog.erau.edu/programs/undergraduate/combined-program-pathways/dbs-engineering_dmsunse/)
- B.S. in Mechanical Engineering/Master of Business Administration (https://catalog.erau.edu/programs/undergraduate/combined-program-pathways/dbsme_dmba/)
- B.S. in Mechanical Engineering/MBA in Aviation Management (https://catalog.erau.edu/programs/undergraduate/combined-program-pathways/dbsme_dmbaam/)
- B.S. in Mechanical Engineering/M.S. in Aerospace Business Analytics (https://catalog.erau.edu/programs/undergraduate/combined-program-pathways/dbsme_dmsaebuan/)

- B.S. in Mechanical Engineering/M.S. in Aviation Finance (https://catalog.erau.edu/programs/undergraduate/combined-program-pathways/dbsme_dmsaf/)
- B.S. in Mechanical Engineering/M.S. in Human Factors (https://catalog.erau.edu/programs/undergraduate/combined-program-pathways/dbsme_dmsfh/)
- B.S. in Software Engineering/Master of Business Administration (https://catalog.erau.edu/programs/undergraduate/combined-program-pathways/dbsse_dmba/)
- B.S. in Software Engineering/MBA in Aviation Management (https://catalog.erau.edu/programs/undergraduate/combined-program-pathways/dbsse_dmbaam/)
- B.S. in Software Engineering/M.S. in Aerospace Business Analytics (https://catalog.erau.edu/programs/undergraduate/combined-program-pathways/dbsse_dmsaebuan/)
- B.S. in Software Engineering/M.S. in Aviation Finance (https://catalog.erau.edu/programs/undergraduate/combined-program-pathways/dbsse_dmsaf/)
- B.S. in Software Engineering/M.S. in Human Factors (https://catalog.erau.edu/programs/undergraduate/combined-program-pathways/dbsse_dmsfh/)

Master's Degrees

- M.S. in Aerospace Engineering (<https://catalog.erau.edu/programs/graduate/masters/aerospace-engineering/#daytonabeachtext>)
- M.S. in Civil Engineering (<https://catalog.erau.edu/programs/graduate/masters/civil-engineering/#daytonabeachtext>)
- M.S. in Computer Science (<https://catalog.erau.edu/programs/graduate/masters/computer-science/#daytonabeachtext>)
- M.S. in Electrical and Computer Engineering (<https://catalog.erau.edu/programs/graduate/masters/computer-electrical-engineering/#daytonabeachtext>)
- M.S. in Mechanical Engineering (<https://catalog.erau.edu/programs/graduate/masters/mechanical-engineering/#daytonabeachtext>)
- M.S. in Software Engineering (<https://catalog.erau.edu/programs/graduate/masters/software-engineering/#daytonabeachtext>)
- M.S. in Systems Engineering (<https://catalog.erau.edu/programs/graduate/masters/systems-engineering/#daytonabeachtext>)
- M.S. in Uncrewed and Autonomous Systems Engineering (<https://catalog.erau.edu/programs/graduate/masters/uncrewed-autonomous-systems-engineering/#daytonabeachtext>)

Dual Masters

- M.S. in Engineering and Master of Business Administration (https://catalog.erau.edu/programs/graduate/dual-masters-programs/dms-eng_dmba/)

Doctoral Degrees

- Ph.D. in Aerospace Engineering (<https://catalog.erau.edu/programs/graduate/phd/aerospace-engineering/#daytonabeachtext>)
- Ph.D. in Electrical Engineering and Computer Science (<https://catalog.erau.edu/programs/graduate/phd/electrical-engineering-and-computer-science/#daytonabeachtext>)
- Ph.D. in Mechanical Engineering (<https://catalog.erau.edu/programs/graduate/phd/mechanical-engineering/#daytonabeachtext>)