COLLEGE OF ENGINEERING AND COMPUTING

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Jed S. Lyons, Senior Associate Dean for Academic Affairs
Michael A. Matthews, Senior Associate Dean for Research and Graduate Studies
Ruth B. Patterson, Assistant Dean for Student Services
Paul H. Ziehl, Associate Dean for Research

Baccalaureate Degrees

The College of Engineering and Computing offers the following baccalaureate degrees:

- Aerospace Engineering, B.S.E. (https://academicbulletins.sc.edu/undergraduate/engineering-computing/mechanical-engineering/aerospace-engineering-bse/)
- Biomedical Engineering, B.S. (https://academicbulletins.sc.edu/undergraduate/engineering-computing/biomedical-engineering/biomedical-engineering-bs/)
- Chemical Engineering, B.S.E. (https://academicbulletins.sc.edu/undergraduate/engineering-computing/chemical-engineering/chemical-engineering-bse/)
- Civil Engineering, B.S.E. (https://academicbulletins.sc.edu/undergraduate/engineering-computing/civil-environmental-engineering/civil-engineering-bse/)
- Computer Engineering, B.S.E. (https://academicbulletins.sc.edu/undergraduate/engineering-computing/computer-science-engineering/computer-engineering-bse/)
- Computer Information Systems, B.S. (https://academicbulletins.sc.edu/undergraduate/engineering-computing/computer-science-engineering/computer-information-systems-bs/)
- Electrical Engineering, B.S.E. (https://academicbulletins.sc.edu/undergraduate/engineering-computing/electrical-engineering/electrical-engineering-bse/)
- Integrated Information Technology, B.S. (https://academicbulletins.sc.edu/undergraduate/engineering-computing/integrated-information-technology/integrated-information-technology-bs/)
- Mechanical Engineering, B.S.E. (https://academicbulletins.sc.edu/undergraduate/engineering-computing/mechanical-engineering/mechanical-engineering-bse/)
- Aerospace Engineering Minor (https://academicbulletins.sc.edu/undergraduate/engineering-computing/mechanical-engineering/aerospace-engineering-minor/)
- Applied Computing Minor (https://academicbulletins.sc.edu/undergraduate/engineering-computing/computer-science-engineering/applied-computing-minor/)
- Chemical Engineering Minor (https://academicbulletins.sc.edu/undergraduate/engineering-computing/chemical-engineering/chemical-engineering-minor/)
- Computer Science Minor (https://academicbulletins.sc.edu/undergraduate/engineering-computing/computer-science-engineering/computer-science-minor/)
- Cybersecurity Operations Minor (https://academicbulletins.sc.edu/undergraduate/engineering-computing/integrated-information-technology/cybersecurity-operations-minor/)
- Data Science Minor (https://academicbulletins.sc.edu/undergraduate/engineering-computing/computer-science-engineering/data-science-minor/)
- Electrical Engineering Minor (https://academicbulletins.sc.edu/undergraduate/engineering-computing/electrical-engineering/electrical-engineering-minor/)
- Integrated Information Technology Minor (https://academicbulletins.sc.edu/undergraduate/engineering-computing/integrated-information-technology/integrated-information-technology-minor/)
- Nuclear Engineering Minor (https://academicbulletins.sc.edu/undergraduate/engineering-computing/mechanical-engineering/nuclear-engineering-minor/)

A student in the College of Engineering and Computing may add to his or her program of study any minor listed in the Academic Programs A-Z (https://academicbulletins.sc.edu/undergraduate/programs-az/) section of this bulletin, provided the minor field of study is distinctly different from the major. Students completing the Computer Information Systems bachelor's degree program automatically earn a minor in Business Information Systems. In most other cases, additional coursework is required to add a minor to a program of study.

Multiple Baccalaureate Degree

In accordance with the university policy on Additional Majors and Baccalaureate Degrees, qualified students may pursue more than one degree from the College of Engineering and Computing either simultaneously or in subsequent terms. The College of Engineering and Computing cooperates with other colleges in the awarding of multiple degrees. Students receive a diploma for each degree awarded.

Multiple Majors

In accordance with the university policy on Additional Majors and Baccalaureate Degrees, qualified students may apply for graduation with double majors in Computer Science and in Mathematics. Students...
cooperating with the student in career decision making, to improve after-graduation
experience is to give direction and enrichment to the student’s education, or run concurrently with academic semesters. The purpose of the co-op
program is to provide career-related work experiences, which can either alternate, both programs for dual credit. The specific courses must be approved by
the instructor for which the university approved grade forgiveness has been applied. A
computation will include all repeated grades, with the exception of those
required. Generally, the equivalent of at least one year of full-
time professional experience is required for acceptance to the accelerated BS/IMBA program. Students will generally officially start taking IMBA core courses during the summer after they are
within 30 hours of completing the undergraduate degree. The following year will be spent taking elective courses in the IMBA program. The first year of the IMBA program is tightly structured and provides little flexibility in scheduling, including the required internship. Courses remaining to complete the requirements for both programs will be taken during the second year of the IMBA program. Up to 9 hours of graduate courses may be used for dual credit in both programs. The specific courses must be approved by both programs for dual credit.

Cooperative Education
The Cooperative Education Program is an optional program designed to provide career-related work experiences, which can either alternate, or run concurrently with academic semesters. The purpose of the co-op experience is to give direction and enrichment to the student’s education, to help the student in career decision making, to improve after-graduation job prospects, and to enable students to pay for a significant portion of their college expenses.

To qualify for the co-op program, students must have completed 30 semester hours and have at least a 2.50 grade point average. The program requires that students participate in at least two work experiences, each equal to one academic semester, and maintain at least a 2.50 grade point average. Students are encouraged to enroll with the Engineering and Computing Career Services Office during their freshman year. More information is available from the Career Center’s co-op website (http://sc.edu/about/offices_and_divisions/career_center/).

General Education Requirements
A student must satisfy all Carolina Core (https://academicbulletins.sc.edu/undergraduate/carolina-core-courses/) requirements to receive a baccalaureate degree from the College of Engineering and Computing. Specific courses and guidelines to satisfy these requirements are determined by each degree program in the College. Individual degree programs may also have additional requirements that could be considered as contributing to general education.

Progression Requirements
Any program-specific progression requirement policies are described in that program’s section of this bulletin. Students who are within 30 hours of completing all degree requirements should request a senior check from the Student Services Office.

Program GPA Requirement
The College or Engineering and Computing requires that students have a Program GPA of 2.00 or better. A listing of courses included in the Program GPA for each degree program is maintained in the respective academic program section of this bulletin. The Program GPA computation will include all repeat grades, with the exception of those for which the university approved grade forgiveness has been applied. A student not meeting these requirements must change major or transfer out of the College of Engineering and Computing. Click the program link below for specific Program GPA information.

- Aerospace Engineering, B.S.E. (https://academicbulletins.sc.edu/undergraduate/engineering-computing/mechanical-engineering/aerospace-engineering-bse/)
- Biomedical Engineering, B.S. (https://academicbulletins.sc.edu/undergraduate/engineering-computing/biomedical-engineering/biomedical-engineering-bs/)
- Chemical Engineering, B.S.E. (https://academicbulletins.sc.edu/undergraduate/engineering-computing/chemical-engineering/chemical-engineering-bse/)
- Civil Engineering, B.S.E. (https://academicbulletins.sc.edu/undergraduate/engineering-computing/civil-environmental-engineering/civil-engineering-bse/)
- Computer Engineering, B.S.E. (https://academicbulletins.sc.edu/undergraduate/engineering-computing/computer-science-engineering/computer-engineering-bse/)
- Computer Information Systems, B.S. (https://academicbulletins.sc.edu/undergraduate/engineering-computing/computer-science-engineering/computer-information-systems-bs/)
- Computer Science, B.S.C.S. (https://academicbulletins.sc.edu/undergraduate/engineering-computing/computer-science-engineering/computer-science-bscs/)
• Electrical Engineering, B.S.E. (https://academicbulletins.sc.edu/undergraduate/engineering-computing/electrical-engineering/electrical-engineering-bse/)
• Integrated Information Technology, B.S. (https://academicbulletins.sc.edu/undergraduate/engineering-computing/integrated-information-technology/integrated-information-technology-bs/)
• Mechanical Engineering, B.S.E. (https://academicbulletins.sc.edu/undergraduate/engineering-computing/mechanical-engineering/mechanical-engineering-bse/)

Repetition of Coursework

A student cannot repeat courses from the College of Engineering and Computing in which they earned a grade of C or better. In addition, a student cannot repeat any course from the College a second time. For this purpose, withdrawal from a course with a grade of W is not regarded as enrollment in that course. A student that does not satisfactorily complete a degree-required College course within two attempts must change major or transfer out of the College of Engineering and Computing.

A student can repeat no more than four courses from the College of Engineering and Computing in order to satisfy the requirements for any degree from the College, regardless of satisfactory work. For this purpose, withdrawal from a course with a grade of W is not regarded as enrollment in that course. A student not meeting these requirements must change major or transfer out of the College of Engineering and Computing.

Departments

• Biomedical Engineering (https://academicbulletins.sc.edu/undergraduate/engineering-computing/biomedical-engineering/)
• Chemical Engineering (https://academicbulletins.sc.edu/undergraduate/engineering-computing/chemical-engineering/)
• Civil and Environmental Engineering (https://academicbulletins.sc.edu/undergraduate/engineering-computing/civil-environmental-engineering/)
• Computer Science and Engineering (https://academicbulletins.sc.edu/undergraduate/engineering-computing/computer-science-engineering/)
• Electrical Engineering (https://academicbulletins.sc.edu/undergraduate/engineering-computing/electrical-engineering/)
• Integrated Information Technology (https://academicbulletins.sc.edu/undergraduate/engineering-computing/integrated-information-technology/)
• Mechanical Engineering (https://academicbulletins.sc.edu/undergraduate/engineering-computing/mechanical-engineering/)