COMPUTER INFORMATION SYSTEMS, B.S.

Accreditation

Learning Outcomes
• At the time of graduation students should satisfy the following Learning Outcomes
• Students will demonstrate an ability to analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.
• Students will demonstrate an ability to design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
• Communicate effectively in a variety of professional contexts.
• Students will demonstrate an ability to recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.
• Students will demonstrate an ability to function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.
• Students will demonstrate an ability to support the delivery, use, and management of information systems within an information systems environment.

Academic Standards

Program GPA
Program GPA requirement policies are described in the College of Engineering and Computing section of this bulletin. For the purpose of these policies, the following courses are used to determine the Program GPA for the Computer Information Systems B.S. program: all Lower Division Computing courses, Computer Information Systems Major courses, Computer Information Systems Electives, CSCE 145, CSCE 390, and MGSC 290.

Exclusions
No Lower Division Computing, Computer Engineering Major, or Computer Engineering Elective course may be counted toward a minor. All other required courses and electives may be used for a minor as appropriate. CSCE 101 and CSCE 102 are not major courses and may not be used for degree credit.

Minimum Course Grades
The Computer Information Systems B.S. program requires that a grade of "C" or better be earned in each of the following courses: ENGL 101, ENGL 102, MATH 122 or MATH 141, MATH 174 or MATH 374, and all CSCE courses applied to the degree.

Admissions

Entrance Requirements
Admission requirements and processes for freshman, transfer students, and former students seeking readmission are managed by the Office of Undergraduate Admissions (http://sc.edu/about/offices_and_divisions/undergraduate_admissions/).

Transfer applicants from regionally accredited colleges and universities must have a cumulative 2.75 GPA on a 4.00 scale to enter the College of Engineering and Computing. In addition, transfer applicants for the Aerospace Engineering, Biomedical Engineering, Chemical Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, or Mechanical Engineering majors must also have completed a four semester-hour calculus course equivalent to MATH 141 with a grade of "C" or better.

Current University of South Carolina students who wish to enter the College of Engineering and Computing, and former students seeking readmission, must have an institutional GPA of 2.50 or better on at least 15 hours earned at UofSC. In addition, such applicants for the Aerospace Engineering, Biomedical Engineering, Chemical Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, or Mechanical Engineering majors must also have completed a four semester-hour calculus course equivalent to MATH 141 with a grade of "C" or better.

All engineering and computing students must earn a minimum of 30 semester hours, including at least half of the hours of work in the major, in residence.

Degree Requirements (120-128 hours)
See College of Engineering and Computing (https://academicbulletins.sc.edu/undergraduate/engineering-computing/) for progression requirements and special academic opportunities.

Program of Study

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Carolina Core</td>
<td>34-44</td>
</tr>
<tr>
<td>2. College Requirements</td>
<td>0</td>
</tr>
<tr>
<td>3. Program Requirements</td>
<td>57-59</td>
</tr>
<tr>
<td>4. Major Requirements</td>
<td>27</td>
</tr>
<tr>
<td>Total hours required</td>
<td>118-130</td>
</tr>
</tbody>
</table>

1. Carolina Core Requirements (34-44 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)
Must be passed with a grade of C or higher.
• ENGL 101
• ENGL 102

ARP – Analytical Reasoning and Problem Solving (7-8 hours)
Must be passed with a grade of C or higher.
• CSCE 145
• MATH 122 or MATH 141

SCI – Scientific Literacy (8 hours)
• Two 4-credit hour CC-SCI (https://academicbulletins.sc.edu/undergraduate/carolina-core-courses/) laboratory science courses
2. College Requirements (0 hours)

No college-required courses for this program.

3. Program Requirements (57-59 hours)

Supporting Courses (39 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 462</td>
<td>Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 463</td>
<td>Business Writing</td>
<td></td>
</tr>
<tr>
<td>MATH 174</td>
<td>Discrete Mathematics for Computer Science (must be passed with a grade of C or higher)</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 374</td>
<td>Discrete Structures</td>
<td></td>
</tr>
<tr>
<td>STAT 509</td>
<td>Statistics for Engineers</td>
<td>3</td>
</tr>
<tr>
<td>or STAT 515</td>
<td>Statistical Methods I</td>
<td></td>
</tr>
</tbody>
</table>

Liberal Arts Electives (9 hours)

Select from the following:

- AERO 401, AERO 402
- AFAM 201-AFAM 580
- ANTH 101-ANTH 499
- ARMY 401, ARMY 402
- ARTE 101, ARTE 260
- ARTH 105-ARTH 366
- ARTS 103-ARTS 261
- CHIN 103-CHIN 550
- CLASS 220-CLASS 598
- CPLT 150-CPLT 597
- CRJU 101-CRJU 494
- DANC 101-DANC 381
- ECON 123-ECON 499
- ENGL 270-ENGL 499
- FAMS 180-FAMS 597
- FREN 109-FREN 615
- GERM 109-GERM 615
- HIST 101-HIST 692
- ITAL 101-ITAL 615
- JAPA 121-JAPA 500
- LASP 201-LASP 451
- LATN 109-LATN 615
- LING 300-LING 600
- MART 110-MART 341
- MUSC 110-MUSC 140
- NAVY 401, NAVY 402
- PHIL 101-PHIL 109, PHIL 112-PHIL 598
- POLI 101-POLI 499
- PORT 121-PORT 615
- PSYC 101-PSYC 499
- RELG 101-RELG 552
- RUSS 121-RUSS 616
- SOCY 101-SOCY 499
- SOST 101-SOST 500
- SPAN 109-SPAN 615
- THEA 170-THEA 565
- WGST 112-WGST 555

Lower Division Computing (18 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCE 146</td>
<td>Algorithmic Design II</td>
<td>4</td>
</tr>
<tr>
<td>CSCE 190</td>
<td>Computing in the Modern World</td>
<td>1</td>
</tr>
<tr>
<td>CSCE 201</td>
<td>Introduction to Computer Security</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 210</td>
<td>Computer Hardware Foundations</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 215</td>
<td>UNIX/Linux Fundamentals</td>
<td>1</td>
</tr>
</tbody>
</table>
Major Map

A major map is a layout of required courses in a given program of study, including critical courses and suggested course sequences to ensure a clear path to graduation.

Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

Computer Information Systems, B.S.