

INTEGRATED INFORMATION TECHNOLOGY, B.S.

Accreditation

The Integrated Information Technology program is accredited by the Computing Accreditation Commission of ABET, <http://www.abet.org>.

Learning Outcomes

- Students will analyze a complex computing problem and apply principles of computing and other relevant disciplines to identify solutions. (1)
- Students will design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the IT discipline. (2)
- Students will communicate effectively in a variety of professional contexts. (3)
- Students will recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles. (4)
- Students will function effectively as a member or leader of a team engaged in activities appropriate to the IT discipline. (5)
- Students will identify and analyze user needs and take them into account in the selection, creation, integration, evaluation, and administration of computing-based systems. (6)

Academic Standards

Program GPA

Program GPA requirement policies are described in the College of Engineering and Computing (<https://academicbulletins.sc.edu/archives/2021-2022/undergraduate/engineering-computing/>) section of this bulletin. For the purpose of these policies, the following courses are used to determine the Program GPA for the Integrated Information Technology B.S. program: all Lower Division Integrated Information Technology courses, all Integrated Information Technology Major courses and all Major Elective courses.

Minimum Course Grades

The Integrated Information Technology B.S. program requires that a grade of “C” or better be earned in MATH 174 and all ITEC 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.

Degree Requirements (120 hours)

See College of Engineering and Computing (<https://academicbulletins.sc.edu/archives/2021-2022/undergraduate/engineering-computing/>) for progression requirements and special academic opportunities.

Program of Study

Requirements	Credit Hours
1. Carolina Core	31-43
2. College Requirements	0
3. Program Requirements	41-56
4. Major Requirements	36

Founding Documents Requirement

All undergraduate students must take a 3-credit course or its equivalent with a passing grade in the subject areas of History, Political Science, or African American Studies that covers the founding documents including the United State Constitution, the Declaration of Independence, the Emancipation Proclamation and one or more documents that are foundational to the African American Freedom struggle, and a minimum of five essays from the Federalist papers. This course may count as a requirement in any part of the program of study including the Carolina Core, the major, minor or cognate, or as a general elective. Courses that meet this requirement are listed here (<https://academicbulletins.sc.edu/archives/2021-2022/undergraduate/founding-document-courses/>).

1. Carolina Core Requirements (31-43 hours)

CMW – Effective, Engaged, and Persuasive Communication: Written (6 hours)

- ENGL 101 - *must be passed with a grade of C or higher*
- ENGL 102

ARP – Analytical Reasoning and Problem Solving (6 hours)

- MATH 174 - *must be passed with a grade of C or higher*
- STAT 201 or STAT 205

SCI – Scientific Literacy (7 hours)

- two CC-SCI courses (<https://academicbulletins.sc.edu/archives/2021-2022/undergraduate/carolina-core-courses/>) from the natural sciences including one laboratory selected from Astronomy, Biology, Chemistry, Environmental Science, Geology, Marine Science or Physics

GFL – Global Citizenship and Multicultural Understanding: Foreign Language (0-6 hours)

Score two or better on foreign language placement test; or complete the 109 and 110 courses in FREN, GERM, LATN or SPAN; or complete the 121 course in another foreign language.

- CC-GFL courses (<https://academicbulletins.sc.edu/archives/2021-2022/undergraduate/carolina-core-courses/>)

GHS – Global Citizenship and Multicultural Understanding: Historical Thinking (3 hours)

- any CC-GHS course (<https://academicbulletins.sc.edu/archives/2021-2022/undergraduate/carolina-core-courses/>)

GSS – Global Citizenship and Multicultural Understanding: Social Sciences (3 hours)

- any CC-GSS course (<https://academicbulletins.sc.edu/archives/2021-2022/undergraduate/carolina-core-courses/>)

AIU – Aesthetic and Interpretive Understanding (3 hours)

- any CC-AIU course (<https://academicbulletins.sc.edu/archives/2021-2022/undergraduate/carolina-core-courses/>)

CMS – Effective, Engaged, and Persuasive Communication: Spoken Component ¹ (3 hours)

- SPCH 140, SPCH 145, or SPCH 230

INF – Information Literacy ¹ (0-3 hours)

- any overlay or stand-alone CC-INF course (<https://academicbulletins.sc.edu/archives/2021-2022/undergraduate/carolina-core-courses/>)

VSR – Values, Ethics, and Social Responsibility ¹ (0-3 hours)

- any overlay or stand-alone CC-VSR course (<https://academicbulletins.sc.edu/archives/2021-2022/undergraduate/carolina-core-courses/>)

¹ Carolina Core Stand Alone or Overlay Eligible

Requirements — Overlay-approved courses offer students the option of meeting two Carolina Core components in a single course. A maximum of two overlays is allowed. The total Carolina Core credit hours for this program must add up to a minimum of 31 hours.

2. College Requirements (0 hours)

No college-required courses for this program.

3. Program Requirements (41-53 hours)

Supporting Courses (39-41 hours)

Course	Title	Credits
Foundational Courses		
ECON 224	Introduction to Economics ¹	3
SPTE 240	Business Law	3
or ACCT 324	Survey of Commercial Law	
Select one of the following:		
ITEC 242	Business Communications	3

ENGL 462	Technical Writing	
ENGL 463	Business Writing	
MGMT 250	Professional Communication	
RETL 261 & 262	Principles of Accounting I and Principles of Accounting II	6
or ACCT 222	Survey of Accounting	
HRTM 344	Personnel Organization and Supervision	3
or MGMT 371	Principles of Management	
Lower Division Integrated Information Technology		
Must be passed with a grade of C or higher.		
ITEC 101	Thriving in the Tech Age	3
ITEC 233	Introduction to Computer Hardware and Software	3
ITEC 245	Introduction to Networking	3
ITEC 264	Computer Applications in Business I	3
ITEC 265	Introduction to Databases	3
Software Programming Language		
Select one of the following sequences:		
CSCE 204 & ITEC 352	Program Design and Development and Software Design	6-8
ITEC 204 & 352	Program Design and Development and Software Design	
CSCE 145 & 146	Algorithmic Design I and Algorithmic Design II	
Total Credit Hours		39-41

¹ ECON 224 may be satisfied by completing both ECON 221 and ECON 222, if they were taken prior to the student becoming an IIT major or through transient enrollment.

Electives (0-17 hours)

The IIT curriculum includes 0-17 hours of electives depending on how students fulfill the Carolina Core requirements. Any course in the university can be used to satisfy the elective requirement (including additional electives in the major).

4. Major Requirements (36 hours)

Must be passed with a grade of C or higher.

Major Courses (33 hours)

Course	Title	Credits
ITEC 301	Professional Internship Seminar	3
ITEC 362	Introduction to Web Systems	3
ITEC 370	Database Systems in Information Technology	3
ITEC 444	Introduction to Human Computer Interaction	3
ITEC 445	Advanced Networking	3
ITEC 447	Management of Information Technology	3
ITEC 493	Information Technology Security for Managers	3
ITEC 495	Professional Internship	6
ITEC 560	Project Management Methods	3
ITEC 564	Capstone Project for Information Technology	3
Total Credit Hours		33

Major Elective (3 hours)

Any 3-credit ITEC course numbered 400 or above that is not used to satisfy a major or minor requirement.

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.

Integrated Information Technology, B.S.