

# INTEGRATED INFORMATION TECHNOLOGY, B.S.

## Degree Requirements (120 hours)

See College of Engineering and Computing (<https://academicbulletins.sc.edu/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 | 41-53        |
| 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/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/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/undergraduate/carolina-core-courses/>)

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

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

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

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

### AIU – Aesthetic and Interpretive Understanding (3 hours)

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

### CMS – Effective, Engaged, and Persuasive Communication: Spoken Component <sup>1</sup> (3 hours)

- SPCH 140, SPCH 145, or SPCH 230

### INF – Information Literacy <sup>1</sup> (0-3 hours)

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

### VSR – Values, Ethics, and Social Responsibility <sup>1</sup> (0-3 hours)

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

<sup>1</sup> **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 |
|---|--|---------|
| <b>Foundational Courses</b>                             |  |         |
| ECON 224  | Introduction to Economics <sup>1</sup>                     | 3       |
| SPT 240   | Business Law   | 3       |
| Select one of the following:                            |  |         |
| ITEC 242  | Business Communications                                    | 3       |
| ENGL 462  | Technical Writing  | 3       |
| ENGL 463  | Business Writing   | 3       |
| MGMT 250  | Professional Communication                                 | 3       |
| RETL 261 & 262  | Principles of Accounting I and Principles of Accounting II | 3       |
| or ACCT 222   | Survey of Accounting                                       | 3       |
| HRTM 344  | Personnel Organization and Supervision                     | 3       |
| or MGMT 371   | Principles of Management                                   | 3       |
| <b>Lower Division Integrated Information Technology</b> |  |         |
| 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            |
| <b>Software Programming Language</b>   |   |              |
| Select one of the following sequences: |   | 6-8          |
| CSCE 204<br>& ITEC 352                 | Program Design and Development<br>and Software Design |              |
| ITEC 204<br>& 352                      | Program Design and Development<br>and Software Design |              |
| CSCE 145<br>& 146                      | Algorithmic Design I<br>and Algorithmic Design II     |              |
| <b>Total Credit Hours</b>              |   | <b>36-38</b> |

<sup>1</sup> 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         |
| <b>Total Credit Hours</b> |  | <b>33</b> |

### Major Elective (3 hours)

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