# Enterprise Technology Integration, B.S.

**Begin Campus:** Any Penn State Campus  
**End Campus:** University Park

## Degree Requirements

For the Bachelor of Science degree in Enterprise Technology Integration, a minimum of 124 credits is required:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education</td>
<td>45</td>
</tr>
<tr>
<td>Electives</td>
<td>5-6</td>
</tr>
<tr>
<td>Requirements for the Major</td>
<td>91-92</td>
</tr>
</tbody>
</table>

18 of the 45 credits for General Education are included in the Requirements for the Major. This includes: 3 credits of GS courses, 6 credits of GQ courses, 9 credits of GWS courses.

### Requirements for the Major

A grade of C or better is required for all courses in the major. To graduate, a student enrolled in the major must earn at least a C grade in each course designated by the major as a C-required course, as specified by Senate Policy 82-44 (http://senate.psu.edu/policies-and-rules-for-undergraduate-students/82-00-and-83-00-degree-requirements/#82-44).

### Code  Title                          | Credits |
### Prescribed Courses

**Prescribed Courses: Require a grade of C or better**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCTG 211</td>
<td>Financial and Managerial Accounting for Decision Making</td>
<td>4</td>
</tr>
<tr>
<td>ETI 300W</td>
<td>Development and Documentation of Enterprise Web</td>
<td>3</td>
</tr>
<tr>
<td>ETI 461</td>
<td>Database Management and Administration</td>
<td>3</td>
</tr>
<tr>
<td>IST 210</td>
<td>Organization of Data</td>
<td>3</td>
</tr>
<tr>
<td>IST 220</td>
<td>Networking and Telecommunications</td>
<td>3</td>
</tr>
<tr>
<td>IST 230</td>
<td>Language, Logic, and Discrete Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>IST 256</td>
<td>Programming for the Web</td>
<td>3</td>
</tr>
<tr>
<td>IST 301</td>
<td>Information and Organizations</td>
<td>3</td>
</tr>
<tr>
<td>IST 302</td>
<td>IT Project Management</td>
<td>3</td>
</tr>
<tr>
<td>IST 495</td>
<td>Internship</td>
<td>1</td>
</tr>
<tr>
<td>IST 420</td>
<td>Fundamentals of Systems and Enterprise Integration</td>
<td>3</td>
</tr>
<tr>
<td>IST 421</td>
<td>Advanced Enterprise Integration: Technologies and Applications</td>
<td>3</td>
</tr>
</tbody>
</table>

**Additional Courses: Require a grade of C or better**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA 302</td>
<td>Supply Chains</td>
<td>3</td>
</tr>
<tr>
<td>or SCM 301</td>
<td>Supply Chain Management</td>
<td></td>
</tr>
<tr>
<td>CAS/ENGL 138T</td>
<td>Rhetoric and Civic Life II</td>
<td>3</td>
</tr>
<tr>
<td>or CAS 100</td>
<td>Effective Speech</td>
<td></td>
</tr>
<tr>
<td>ECON 102</td>
<td>Introductory Microeconomic Analysis and Policy</td>
<td>3</td>
</tr>
<tr>
<td>or ECON 104</td>
<td>Introductory Macroeconomic Analysis and Policy</td>
<td></td>
</tr>
<tr>
<td>ENGL 202C</td>
<td>Effective Writing: Technical Writing</td>
<td>3</td>
</tr>
</tbody>
</table>

or ENGL 202D Effective Writing: Business Writing  
HCDD 264 Design Practice in Human-Centered Design and Development  
or IST 331 Foundations of Human-Centered Design  
IST 402 Emerging Issues and Technologies  
or IST 423 Enterprise Information Management and Storage Architecture  
MATH 110 Techniques of Calculus I  
or MATH 140 Calculus With Analytic Geometry I  
STAT 200 Elementary Statistics  
or SCM 200 Introduction to Statistics for Business  
Select 3-4 credits from the following:  
BA 243 Social, Legal, and Ethical Environment of Business  
BA 301 Finance  
BA 303 Marketing  
BA 304 Management and Organization  
BLAW 243 Legal Environment of Business  
FIN 301 Corporation Finance  
IB 303 International Business Operations  
MGMT 301 Basic Management Concepts  
MKTG 301 Principles of Marketing  
Select 3 credits from the following:  
CAS/ENGL 137H Rhetoric and Civic Life  
ENGL 15 Rhetoric and Composition  
ENGL 30H Honors Rhetoric and Composition  
Select 3 credits from the following:  
CMPSC 121 Introduction to Programming Techniques  
CMPSC 131 Programming and Computation I: Fundamentals  
IST 140 Introduction to Application Development  
Select 3 credits from the following:  
CMPSC 122 Intermediate Programming  
CMPSC 132 Programming and Computation II: Data Structures  
IST 242 Intermediate & Object-Oriented Application Development  
Select 3 credits from the following:  
CYBER 100 Computer Systems Literacy  
CYBER 100S Computer Systems Literacy  
HCDD 113 Foundations of Human-Centered Design and Development  
HCDD 113S Foundations of Human-Centered Design and Development FYS  
IST 110 Information, People and Technology  
Select 3 credits from the following:  
ETI 435 Enterprise Analytics  
ETI 463 Distributed Database Management Systems  
IST 440W Information Sciences and Technology Integration and Problem Solving  

## Supporting Courses and Related Areas

Supporting Courses and Related Areas: Require a grade of C or better
A student must complete 12 credits from a single Application Focus. For most focuses, at least 3 of those credits must be at the 400-level. The pre-defined application focuses are included in Appendix B of this proposal.  

As an alternative to the pre-defined application focuses, a student may select 12 credits, with at least 3 credits at the 400-level from any courses offered by the university if done so with the approval of a teaching faculty member of the Enterprise Technology Integration major, and their academic adviser.

**General Education**

Connecting career and curiosity, the General Education curriculum provides the opportunity for students to acquire transferable skills necessary to be successful in the future and to thrive while living in interconnected contexts. General Education aids students in developing intellectual curiosity, a strengthened ability to think, and a deeper sense of aesthetic appreciation. These are requirements for all baccalaureate students and are often partially incorporated into the requirements of a program. For additional information, see the General Education Requirements (https://bulletins.psu.edu/undergraduate/general-education/baccalaureate-degree-general-education-program/) section of the Bulletin and consult your academic adviser.

The keystone symbol appears next to the title of any course that is designated as a General Education course. Program requirements may also satisfy General Education requirements and vary for each program.

**Foundations (grade of C or better is required.)**

- Quantification (GQ): 6 credits
- Writing and Speaking (GWS): 9 credits

**Knowledge Domains**

- Arts (GA): 6 credits
- Health and Wellness (GHW): 3 credits
- Humanities (GH): 6 credits
- Social and Behavioral Sciences (GS): 6 credits
- Natural Sciences (GN): 9 credits

**Integrative Studies (may also complete a Knowledge Domain requirement)**

- Inter-Domain or Approved Linked Courses: 6 credits

**University Degree Requirements**

**First Year Engagement**

All students enrolled in a college or the Division of Undergraduate Studies at University Park, and the World Campus are required to take 1 to 3 credits of the First-Year Seminar, as specified by their college First-Year Engagement Plan.

Other Penn State colleges and campuses may require the First-Year Seminar; colleges and campuses that do not require a First-Year Seminar provide students with a first-year engagement experience.

First-year baccalaureate students entering Penn State should consult their academic adviser for these requirements.

**Cultures Requirement**

6 credits are required and may satisfy other requirements

- United States Cultures: 3 credits
- International Cultures: 3 credits

**Writing Across the Curriculum**

3 credits required from the college of graduation and likely prescribed as part of major requirements.

**Total Minimum Credits**

A minimum of 120 degree credits must be earned for a baccalaureate degree. The requirements for some programs may exceed 120 credits. Students should consult with their college or department adviser for information on specific credit requirements.

**Quality of Work**

Candidates must complete the degree requirements for their major and earn at least a 2.00 grade-point average for all courses completed within their degree program.

**Limitations on Source and Time for Credit Acquisition**

The college dean or campus chancellor and program faculty may require up to 24 credits of course work in the major to be taken at the location or in the college or program where the degree is earned. Credit used toward degree programs may need to be earned from a particular source or within time constraints (see Senate Policy 83-80 (http://senate.psu.edu/policies-and-rules-for-undergraduate-students/82-00-and-83-00-degree-requirements/#83-80)). For more information, check the Suggested Academic Plan for your intended program.