INTERDISCIPLINARY BUSINESS WITH ENGINEERING STUDIES, B.S.

Begin Campus: Any Penn State Campus

End Campus: Erie

Degree Requirements
For the Bachelor of Science degree in Interdisciplinary Business with Engineering Studies, a minimum of 127 credits are required:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education</td>
<td>45</td>
</tr>
<tr>
<td>Requirements for the Major</td>
<td>112-114</td>
</tr>
</tbody>
</table>

30 of the 45 credits for General Education are included in the Requirements for the Major. This includes: 9 credits of GN courses; 6 credits of GQ courses; 6 credits of GS courses; 9 credits of GWS courses.

Per Senate Policy 82-80.5, the college dean or campus chancellor and program faculty may require up to 24 credits of coursework in the major to be taken at the location or in the college or program where the degree is earned.

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.

Requirements for the Major
Each student must earn at least a grade of C in each 300- and 400-level course in the major field.

To graduate, a student enrolled in the major must earn a grade of C or better 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).

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA 241</td>
<td>Legal Environment of Business</td>
<td>2</td>
</tr>
<tr>
<td>BA 242</td>
<td>Social and Ethical Environment of Business</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 110</td>
<td>Chemical Principles I</td>
<td>3</td>
</tr>
<tr>
<td>EDSGN 100S</td>
<td>Introduction to Engineering Design</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 211</td>
<td>General Physics: Mechanics</td>
<td>4</td>
</tr>
</tbody>
</table>
PHYS 212 General Physics: Electricity and Magnetism 4

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

ACCTG 211 Financial and Managerial Accounting for Decision Making 4

CAS 100 Effective Speech 3

CMPS 201 Programming for Engineers with C++ 3

ECON 102 Introductory Microeconomic Analysis and Policy 3

ECON 104 Introductory Macroeconomic Analysis and Policy 3

EGT 120 Introduction to Graphics and Solid Modeling 3

ENGL 202C Effective Writing: Technical Writing 3

FIN 301 Corporation Finance 3

MATH 140 Calculus With Analytic Geometry I 4

MATH 141 Calculus With Analytic Geometry II 4

MGMT 301 Basic Management Concepts 3

MGMT 410 Project Management 3

MGMT 475W Strategic Product Development 3

MGMT 476 Product Realization Capstone 3

MIS 204 Introduction to Management Information Systems 3

MKTG 301 Principles of Marketing 3

SCM 301 Supply Chain Management 3

**Additional Courses**

Additional Courses: Require a grade of C or better

CMPEN 270 Digital Design: Theory and Practice 3-4

or CMPET 117 Digital Electronics

EE 211 Electrical Circuits and Power Distribution 3

or EET 101 Electrical Circuits I

EMCH 211 Statics 3

or MET 111 Mechanics for Technology: Statics

EMCH 213 Strength of Materials 3

or MET 213 Strength and Properties of Materials

ENGL 15 Rhetoric and Composition 3

or ENGL 30H Honors Rhetoric and Composition

ME 300 Engineering Thermodynamics I 3

or MET 330 Thermodynamics

SCM 200 Introduction to Statistics for Business 4

or STAT 200 Elementary Statistics

Select 3 credits from the following list:

- ECON 470 International Trade and Finance
- FIN 471 International Finance
- IB 303 International Business Operations
- MGMT 461 International Management
- MKTG 445 Global Marketing

Other 300-400-level international business course

**Supporting Courses and Related Areas**

Select one module from School Approved List of Modules 1-5. 15-16

Except where noted, courses taken to satisfy General Education requirements may not be used to satisfy module requirements.