PSYCHOLOGY, B.S. (LIBERAL ARTS)

Begin Campus: Any Penn State Campus
End Campus: World Campus, University Park

Program Description

Not all options are available at every campus. Contact the campus you are interested in attending to determine which options are offered.

This major is designed for students who want to learn about behavior, normal and abnormal, how it is studied, and its relation to applied areas. Students are encouraged to conduct research with members of the faculty and/or take a practicum in an applied setting. Graduates are equipped for various positions in human service agencies, industrial settings, or laboratories. Others go on to professional school, e.g., medical school, law school, or to continue their training in psychology working toward a master’s or a doctoral degree. Majors may elect either a Bachelor of Arts or a Bachelor of Science program.

The B.S. degree program requires more coursework in the sciences than the B.A. program, and students may select courses from one of four areas—mathematics/computer science, statistics, business, or biology—which may be taken instead of a foreign language.

What is Psychology?

Psychology is the scientific study of thought, behavior, and experience. Many people associate psychology with psychological therapy and the practice of clinical psychology. There are also many other important areas of scientific psychology, such as cognitive, developmental, industrial/organizational, and social psychology. What these subfields of psychology have in common is the use of the scientific method to understand human behavior and apply that understanding to the development of theory and practice. Psychologists are increasingly making use of neuroscience methods and theories to understand psychological phenomena. As a profession, psychology is related to fields such as health, education, marketing, human resources, social work, and more. The principles of psychology are relevant to almost all areas of human endeavor, and the career paths of psychology students reflect this wealth of possibilities.

You Might Like This Program If...

- You want to better understand people’s thoughts, feelings, and behavior.
- You want to learn about how the brain works, how it malfunctions, and how it recovers.
- You are interested in child development, mental health, personality, social interactions, organizations, and neuroscience.
- You want a career as a psychologist, counselor, social worker, or other human services professional.
- You want a broad understanding of human behavior to help you pursue a career in business, law, or medicine.

Entrance to Major

In order to be eligible for entrance to the PSYBS major, a student at any location must have:

1. attained at least a 2.00 cumulative grade-point average;
2. completed PSYCH 100 with a grade of C or better;
3. completed STAT 200 or PSYCH 200, at least 3 credits of GQ courses (not including STAT 200), and at least 3 credits of GS courses (not including PSYCH 100) with a grade of C or better.

Degree Requirements

For the Bachelor of Science degree in Psychology, a minimum of 123 credits is required:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>General Education</td>
<td>45</td>
</tr>
<tr>
<td>Electives</td>
<td>10-13</td>
</tr>
<tr>
<td>Requirements for the Major</td>
<td>74-77</td>
</tr>
</tbody>
</table>

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

Per Senate Policy 83-80.5, 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. For more information, check the Recommended Academic Plan for your intended program.

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 (http://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). For more information, check the Suggested Academic Plan for your intended program.

**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. At least 3 credits must be from each group A, B, and C:

- **Prescribed Courses**: Require a grade of C or better
  - ENGL 202A: Effective Writing: Writing in the Social Sciences (3 credits)
  - PSYCH 100: Introductory Psychology (3 credits)
  - PSYCH 105: Psychology as a Science and Profession (3 credits)
  - PSYCH 301W: Psychology (4 credits)
  - PSYCH 490: Senior Seminar in Psychology (3 credits)

- **Additional Courses**: Require a grade of C or better
  - Select 6 credits of GQ courses
  - PSYCH 200: Elementary Statistics in Psychology (4 credits)
  - or STAT 200: Elementary Statistics (4 credits)

Select 12 credits of 200-level PSY courses (not to include PSYCH 294, PSYCH 296, or PSYCH 297). At least 3 credits must be from each group A, B, and C:

- **Group A**
  - PSYCH 253: Introduction to Psychology of Perception
  - PSYCH 256: Introduction to Cognitive Psychology
  - PSYCH 260: Neurological Bases of Human Behavior
  - PSYCH 261: Introduction to Psychology of Learning

- **Group B**
  - PSYCH 212: Introduction to Developmental Psychology
  - PSYCH 221: Introduction to Social Psychology
  - PSYCH 231: Introduction to the Psychology of Gender
  - PSYCH 238: Introduction to Personality Psychology

- **Group C**
  - PSYCH 243: Introduction to Well-being and Positive Psychology
  - PSYCH 269: Evolutionary Psychology
  - PSYCH 270: Introduction to Abnormal Psychology
  - PSYCH 281: Introduction to Industrial-Organizational Psychology

Select 12 credits of PSYCH courses at the 400 level (not including PSYCH 490, and including no more than 3 credits of PSYCH 493, PSYCH 494, PSYCH 495, or PSYCH 496)

**Requirements for the Option**
**Requirements for the Option: Require a grade of C or better**
Select an option

**Life Sciences Option (24 credits)**
Available at the following campuses: University Park, World Campus

**Code** | **Title** | **Credits**
---|---|---
**Prescribed Courses**
- **Additional Courses**: Require a grade of C or better
  - Select 15 credits from groups A, B, C, and D, including at least 3 credits from each of three different groups:

- **A. Genetics**
  - ANTH 218: Genes, Evolution and Behavior
  - ANTH 460: Human Genetics
  - BIOL 133: Genetics and Evolution of the Human Species
  - or BIOL 222: Genetics

- **B. Biological Anthropology**
  - ANTH 21: Introductory Biological Anthropology
  - ANTH 22: Humans as Primates
  - ANTH 40: Biocultural Evolution
  - ANTH 401: Human Evolution: The Material Evidence
  - BBH 410: Developmental and Health Genetics
  - HPA 310: Health Care and Medical Needs
  - NUTR 251: Introductory Principles of Nutrition

- **C. Biobehavioral Implications**
  - Any BBH course (except BBH 310)
  - HDFS 417: Biocultural Studies of Family Organization
  - RHS 100: Introduction to Disability Culture
  - RHS 300: Introduction to Rehabilitation and Human Services
  - RHS 403: Medical Aspects of Disability
**D. Biology and Chemistry**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>BIOL 110</td>
<td>Biology: Basic Concepts and Biodiversity</td>
<td></td>
</tr>
<tr>
<td>BIOL 141</td>
<td>Introductory Physiology</td>
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<tr>
<td>BIOL 155</td>
<td>Introduction to the Biology of Aging</td>
<td></td>
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<tr>
<td>BIOL 177</td>
<td>Biology of Sex</td>
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<tr>
<td>CHEM 110</td>
<td>Chemical Principles I</td>
<td></td>
</tr>
<tr>
<td>CHEM 111</td>
<td>Experimental Chemistry I</td>
<td></td>
</tr>
<tr>
<td>CHEM 112</td>
<td>Chemical Principles II</td>
<td></td>
</tr>
<tr>
<td>CHEM 113</td>
<td>Experimental Chemistry II</td>
<td></td>
</tr>
<tr>
<td>CHEM 210</td>
<td>Organic Chemistry I</td>
<td></td>
</tr>
<tr>
<td>CHEM 212</td>
<td>Organic Chemistry II</td>
<td></td>
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<tr>
<td>CHEM 213</td>
<td>Laboratory in Organic Chemistry</td>
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</tbody>
</table>

**Supporting Courses and Related Areas**

Supporting Courses and Related Areas: Require a grade of C or better

Select 3 credits in natural sciences from department list 3

Select 6 credits in social and behavioral sciences from department list 6

**Business Option (24 credits)**

Available at the following campuses: University Park, World Campus

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MGMT 301</td>
<td>Basic Management Concepts (or any higher-numbered MGMT course)</td>
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**Group 2, Section B (Law and Ethics)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>BA 302</td>
<td>Supply Chains</td>
<td></td>
</tr>
<tr>
<td>BLAW 243</td>
<td>Legal Environment of Business</td>
<td></td>
</tr>
<tr>
<td>LER 460</td>
<td>Ethics in the Workplace</td>
<td></td>
</tr>
<tr>
<td>PHIL 119</td>
<td>Ethical Leadership</td>
<td></td>
</tr>
<tr>
<td>PHIL 406</td>
<td>Business Ethics</td>
<td></td>
</tr>
<tr>
<td>PHIL/STS 407</td>
<td>Technology and Human Values</td>
<td></td>
</tr>
<tr>
<td>PHIL 418</td>
<td>Ethics</td>
<td></td>
</tr>
<tr>
<td>PHIL/STS 432</td>
<td>Medical and Health Care Ethics</td>
<td></td>
</tr>
<tr>
<td>SCM 301</td>
<td>Supply Chain Management</td>
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**Group 2, Section C (Labor Relations)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>LER 100</td>
<td>Introduction to Labor and Human Resources</td>
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<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CAS 352</td>
<td>Organizational Communication</td>
<td></td>
</tr>
<tr>
<td>CAS 450W</td>
<td>Group Communication Theory and Research</td>
<td></td>
</tr>
<tr>
<td>CAS 452</td>
<td>Organizational Communication Theory and Research</td>
<td></td>
</tr>
<tr>
<td>ENGL 419</td>
<td>Advanced Business Writing</td>
<td></td>
</tr>
<tr>
<td>ENGL 460</td>
<td>Business and Literature</td>
<td></td>
</tr>
<tr>
<td>LER 464</td>
<td>Communication Skills for Leaders in Groups and Organizations</td>
<td></td>
</tr>
</tbody>
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**Group 3, Section A (Global View)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 455</td>
<td>Global Processes and Local Systems</td>
<td></td>
</tr>
<tr>
<td>GEOG 424</td>
<td>Geography of the Global Economy</td>
<td></td>
</tr>
<tr>
<td>GEOG 439</td>
<td>Property and the Global Environment</td>
<td></td>
</tr>
<tr>
<td>HPA 401</td>
<td>Comparative Health Systems</td>
<td></td>
</tr>
<tr>
<td>IB 303</td>
<td>International Business Operations</td>
<td></td>
</tr>
<tr>
<td>PLSC 487</td>
<td>International Law and Organizations</td>
<td></td>
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</tbody>
</table>

**Group 3, Section B (Gender and Race)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFAM/LER/PLSC 445Y</td>
<td>Politics of Affirmative Action</td>
<td></td>
</tr>
<tr>
<td>CED/WMNST 420</td>
<td>Work and Occupations</td>
<td></td>
</tr>
<tr>
<td>SOC 455</td>
<td>Work and Occupations</td>
<td></td>
</tr>
<tr>
<td>SOC/WMNST 456</td>
<td>Gender, Occupations, and Professions</td>
<td></td>
</tr>
<tr>
<td>SOC/WMNST 456</td>
<td>Gender, Occupations, and Professions</td>
<td></td>
</tr>
<tr>
<td>LER/WMNST 472</td>
<td>Work-Life Practices and Policies</td>
<td></td>
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</table>

**Group 3, Section C (History)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 423</td>
<td>Orthodox Christianity: History and Interpretations</td>
<td></td>
</tr>
<tr>
<td>HIST/LER 458Y</td>
<td>History of Work in America</td>
<td></td>
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</tbody>
</table>

**Group 3, Section D (Technology)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IST 110</td>
<td>Information, People and Technology</td>
<td></td>
</tr>
</tbody>
</table>

**Supporting Courses and Related Areas**

Supporting Courses and Related Areas: Require a grade of C or better

Select 3 credits in arts/humanities from department list 3

Select 3 credits in natural sciences from department list 3

**Additional Courses**

Additional Courses: Require a grade of C or better

Select 15 credits from at least three different groups of the following 15

(3 credits in any category can be replaced by LA 495, but internship credits alone cannot be used to complete a category):

**Group 1, Section A**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 14</td>
<td>Principles of Economics</td>
<td></td>
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<tr>
<td>ECON 102</td>
<td>Introductory Microeconomic Analysis and Policy</td>
<td></td>
</tr>
<tr>
<td>ECON 104</td>
<td>Introductory Macroeconomic Analysis and Policy</td>
<td></td>
</tr>
<tr>
<td>ECON 302</td>
<td>Intermediate Microeconomic Analysis (or higher-numbered ECON course)</td>
<td></td>
</tr>
<tr>
<td>PLSC 412</td>
<td>International Political Economy</td>
<td></td>
</tr>
<tr>
<td>PLSC 444</td>
<td>Government and the Economy</td>
<td></td>
</tr>
<tr>
<td>PLSC 481</td>
<td>Global Political Economy</td>
<td></td>
</tr>
<tr>
<td>PLSC 490</td>
<td>Policy Making and Evaluation</td>
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</table>

**Group 1, Section B**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA 301</td>
<td>Finance</td>
<td></td>
</tr>
<tr>
<td>FIN 301</td>
<td>Corporation Finance (or any higher-numbered FIN course)</td>
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</table>

**Group 1, Section C**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA 303</td>
<td>Marketing</td>
<td></td>
</tr>
<tr>
<td>MKTG 301</td>
<td>Principles of Marketing (or any higher-numbered MKTG course)</td>
<td></td>
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</tbody>
</table>

**Group 1, Section D**

<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></td>
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</table>

**Group 2, Section A (Management)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA 304</td>
<td>Management and Organization</td>
<td></td>
</tr>
<tr>
<td>HPA 57</td>
<td>Consumer Choices in Health Care</td>
<td></td>
</tr>
<tr>
<td>HPA 101</td>
<td>Introduction to Health Services Organization</td>
<td></td>
</tr>
<tr>
<td>HPA 301</td>
<td>Health Services Policy Issues (or any higher-numbered HPA course)</td>
<td></td>
</tr>
</tbody>
</table>
Select 3 credits in social and behavioral sciences from department list 3

**Neuroscience Option (24-27 credits)**
*Available at the following campuses: University Park*

Students planning to apply to medical school should select this option and choose courses to meet the following minimal requirements for most medical schools:

- BIOL 110 and BIOL 230W or BIOL 240W
- CHEM 110, CHEM 111, CHEM 112, CHEM 210, CHEM 212, and CHEM 213
- PHYS 211 and PHYS 212, or PHYS 250 and PHYS 251.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PSYCH 260</td>
<td>Neurological Bases of Human Behavior (also counts in category a of COMMON REQUIREMENTS FOR THE MAJOR)</td>
<td>3</td>
</tr>
</tbody>
</table>

Select 15 credits from groups A, B, C, D, and E, including at least 3 credits from each of four different groups: 15

**A. Genetics**
- BIOL 110 Biology: Basic Concepts and Biodiversity
- BIOL 133 Genetics and Evolution of the Human Species
- BIOL 222 Genetics

**B. Physiology**
- BIOL 141 Introductory Physiology
- BIOL 472 Mammalian Physiology

**C. Organic Chemistry**
- CHEM 202 Fundamentals of Organic Chemistry I
- CHEM 210 Organic Chemistry I
- CHEM 212 Organic Chemistry II

**D. Cell Biology**
- BIOL 230W Biology: Molecules and Cells
- BIOL 469 Neurobiology
- MICRB 106 Elementary Microbiology
- MICRB 201 Introductory Microbiology
- MICRB 251 Molecular and Cell Biology I

**E. Other Topics**
- BIOL 177 Biology of Sex
- BIOL 240W Biology: Function and Development of Organisms
- BIOL 409 Biology of Aging
- BBH 470 Functional and Integrative Neuroscience

**Supporting Courses and Related Areas**

Select 6 credits in natural sciences from department list 6

Select 3 credits in social and behavioral sciences from department list 3

**Quantitative Skills Option (24 credits)**
*Available at the following campuses: University Park*

Students may fulfill the requirements of the Quantitative Skills option by completing a minor in either Statistics or Computer Science and Engineering in lieu of the course requirements listed above. Students choosing this option are encouraged to consult with an adviser designated by the Department of Psychology to determine the suitability of particular courses given their quantitative backgrounds. Other courses with advanced quantitative content may be substituted in category d with adviser’s approval.

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MATH 38</td>
<td>Elementary Linear Algebra</td>
<td></td>
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<tr>
<td>MATH 110</td>
<td>Techniques of Calculus I</td>
<td></td>
</tr>
<tr>
<td>MATH 111</td>
<td>Techniques of Calculus II</td>
<td></td>
</tr>
<tr>
<td>MATH 140</td>
<td>Calculus With Analytic Geometry I</td>
<td></td>
</tr>
<tr>
<td>MATH 141</td>
<td>Calculus With Analytic Geometry II</td>
<td></td>
</tr>
</tbody>
</table>

**Group A**
Select at least 3 credits of the following:
- MATH 38 Elementary Linear Algebra
- MATH 110 Techniques of Calculus I
- MATH 111 Techniques of Calculus II
- MATH 140 Calculus With Analytic Geometry I
- MATH 141 Calculus With Analytic Geometry II

**Group B**
- Students may take only one of the courses in Group B for credit

Select 3 credits of the following:
- CMPSC 101 Introduction to Programming
- CMPSC 121 Introduction to Programming Techniques
- CMPSC 201 Programming for Engineers with C++
- CMPSC 202
- CMPSC 203 Introduction to Spreadsheets and Databases

**Group C, Section 1**
- Students may take only one of the courses in Group C, Section 1 for credit

Select 3 credits of the following:
- STAT 318 Elementary Probability
- STAT 414 Introduction to Probability Theory
- STAT 418 Introduction to Probability and Stochastic Processes for Engineering

**Group C, Section 2**
Select at least 3 credits of the following:
- STAT 319 Applied Statistics in Science
- STAT 415 Introduction to Mathematical Statistics
- STAT 416 Stochastic Modeling
- STAT 460 Intermediate Applied Statistics
- STAT 462 Applied Regression Analysis
- STAT 464 Applied Nonparametric Statistics

**Group D**
- CAS 483 Communication and Information Technology II
- CMPSC 122 Intermediate Programming
- PSYCH 404 Principles of Measurement

**Supporting Courses and Related Areas**

Select 3 credits in arts/humanities from department list 3

Select 6 credits in natural sciences from department list 6

**Integrated B.S. in Psychology and M.S. in Human Resources and Employment Relations**
*Available at the following campuses: University Park*
The integrated PSY B.S. and HRER M.S. is a five-year program designed for academically talented undergraduate Psychology baccalaureate students to obtain both the B.S. degree in Psychology and the M.S. degree in HRER in an intense, accelerated program of study. Students will develop expertise in the human resources and employment relations field beyond that provided by their Psychology B.S. degree. The undergraduate psychology curriculum allows students to study

1. personnel selection,
2. training and development, and
3. organizational psychology.

The graduate curriculum provides for a more intensive, individualized, and focused examination of the human resources and employment relations field, including

1. the roles employers, employees, employee organizations and public policy makers play in the employment relationship,
2. the complex personal and organizational issues inherent in the employment relationship,
3. the laws that form the legal framework for the employee-employer relationship,
4. the tools needed to systematically analyze those complex issues and evaluate research relevant to those analyses, and
5. human resource management policies and practices that contribute to individual and organizational success.

It also provides an opportunity for students to explore a concentrated sub-area of the HRER field in depth. The program culminates with the student either completing a thesis or masters paper. Upon completion of the integrated degree, students will be well-positioned to assume positions of greater responsibility in Industrial/Organizational Psychology, Human Resource Management, Employment Relations, and related careers as a result of the advanced knowledge and expertise gained through the program.

A minimum of 37 credits is needed to complete the M.S. degree in HRER. Twelve credits (400-level and above) can apply to both undergraduate and graduate degrees; six of these must be at the 500 or 800 level.

Admissions Requirements
Admission decisions for the B.S. Psychology /M.S. Human Resources and Employment Relations program are based on the quality of the applicant’s credentials. The decisions are made after a review of the complete application portfolio. The integrated B.S./M.S. program will be limited to highly talented undergraduates. Applicants to the integrated program:

1. Must be enrolled in the PSYCH B.S. program, pursuing the Business Option, with the successful completion of PSYCH 281, AND one of the following: PSYCH 482, PSYCH 484, or PSYCH 485;
2. Must complete the Penn State graduate degree application and pay the application fee;
3. Shall be admitted no earlier than the beginning of the third semester of undergraduate study at Penn State (regardless of transfer of AP credits accumulated prior to enrollment) and no later than the end of the second week of the semester preceding the semester of expected conferral of the undergraduate degree, as specified in the proposed IUG plan of study;
4. Must have an overall GPA of 3.2 (on a 4.0 scale) in undergraduate coursework and a minimum GPA of 3.5 in the major;
5. Must submit three letters of recommendation;
6. Must submit a writing sample, a resume, and a 2-3 page essay articulating career and educational goals that demonstrates the applicant’s written communication skills.

Degree Requirements

Psychology B.S. Requirements

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</table>

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 (http://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

(9 of these 45 credits are included in the REQUIREMENTS FOR THE MAJOR)

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**
(This includes 9 credits of General Education courses: 3 credits of GWS courses and 6 credits of GQ courses.)

A student enrolled in this major must receive a grade of C or better, as specified in Senate Policy 82-44.

**Common Requirements for the Major (All Options)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PSYCH 100</td>
<td>Introductory Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 105</td>
<td>Psychology as a Science and Profession</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 202A</td>
<td>Effective Writing: Writing in the Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 301W</td>
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<td>4</td>
</tr>
<tr>
<td>PSYCH 490</td>
<td>Senior Seminar in Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

**Additional Courses**
Select 6 credits of GQ courses
- PSYCH 200 | Elementary Statistics in Psychology          | 4       |
- or STAT 200 | Elementary Statistics                        |         |
Select 12 credits of 200-level PSY courses of the following (not to include PSYCH 294, PSYCH 296, or PSYCH 297). At least 3 credits must be from each group A, B, and C:

**Group A**
- PSYCH 253 | Introduction to Psychology of Perception     |         |
- PSYCH 256 | Introduction to Cognitive Psychology         |         |
- PSYCH 260 | Neurological Bases of Human Behavior         |         |
- PSYCH 261 | Introduction to Psychology of Learning       |         |
- PSYCH 212 | Introduction to Developmental Psychology    |         |
- PSYCH 221 | Introduction to Social Psychology            |         |
- PSYCH 231 | Introduction to the Psychology of Gender     |         |
- PSYCH 238 | Introduction to Personality Psychology       |         |
- PSYCH 281 | Introduction to Industrial-Organizational Psychology |         |
- Any 200-level PSYCH course
Select 12 credits of PSYCH courses at the 400 level (not including PSYCH 490, and including no more than 3 credits of PSYCH 493, PSYCH 494, PSYCH 495, or PSYCH 496).

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ECON 102</td>
<td>Introductory Microeconomic Analysis and Policy</td>
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<tr>
<td>ECON 104</td>
<td>Introductory Macroeconomic Analysis and Policy</td>
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<tr>
<td>ECON 14</td>
<td>Principles of Economics</td>
<td></td>
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<tr>
<td>ECON 302</td>
<td>Intermediate Microeconomic Analysis (or higher-numbered ECON course)</td>
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<tr>
<td>PHIL 420</td>
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<td></td>
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<tr>
<td>PLSC 412</td>
<td>International Political Economy</td>
<td></td>
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<tr>
<td>PLSC 444</td>
<td>Government and the Economy</td>
<td></td>
</tr>
<tr>
<td>PLSC 481</td>
<td>Global Political Economy</td>
<td></td>
</tr>
<tr>
<td>PLSC 490</td>
<td>Policy Making and Evaluation</td>
<td></td>
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<tr>
<td>BA 301</td>
<td>Finance</td>
<td></td>
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<tr>
<td>FIN 301</td>
<td>Corporation Finance (or any higher-numbered FIN course)</td>
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<tr>
<td>BA 303</td>
<td>Marketing</td>
<td></td>
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<tr>
<td>MKTG 301</td>
<td>Principles of Marketing (or any higher-numbered MKTG course)</td>
<td></td>
</tr>
<tr>
<td>ACCTG 211</td>
<td>Financial and Managerial Accounting for Decision Making</td>
<td></td>
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<tr>
<td>HPA 101</td>
<td>Introduction to Health Services Organization</td>
<td></td>
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<tr>
<td>HPA 301</td>
<td>Health Services Policy Issues (or any higher-numbered H P A course)</td>
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<tr>
<td>BA 304</td>
<td>Management and Organization</td>
<td></td>
</tr>
<tr>
<td>MGMT 301</td>
<td>Basic Management Concepts (or any higher-numbered MGMT course)</td>
<td></td>
</tr>
</tbody>
</table>
### Psychology, B.S. (Liberal Arts)

**Group 2, Section B (Law and Ethics)**
- BLAW 243 Legal Environment of Business
- LER 460 Ethics in the Workplace
- PHIL 119 Ethical Leadership
- PHIL 406 Business Ethics
- PHIL/STS 407 Technology and Human Values
- PHIL 418 Ethics
- PHIL/STS 432 Medical and Health Care Ethics
- SCM 301 Supply Chain Management

**Group 2, Section C (Labor Relations)**
- LER 100 Introduction to Labor and Human Resources
- Any 400-level LER course
- HRER 500 Topics in Comparative Industrial Relations
- HRER 501 Labor and Employment Law
- HRER 502 Human Behavior at Work
- HRER 503 Seminar in International Human Resources Studies
- HRER 504 Seminar in Employment Relations
- HRER 505 Seminar in Human Resources

**Group 2, Section D (Communication)**
- CAS 352 Organizational Communication
- CAS 450W Group Communication Theory and Research
- CAS 452 Organizational Communication Theory and Research
- ENGL 419 Advanced Business Writing
- LER 464 Communication Skills for Leaders in Groups and Organizations

**Group 3, Section A (Global View)**
- ANTH 451
- ANTH 455 Global Processes and Local Systems
- GEOG 424 Geography of the Global Economy
- GEOG 439 Property and the Global Environment
- HPA 401 Comparative Health Systems
- PLSC 487 International Law and Organizations
- PLSC 441

**Group 3, Section B (Gender and Race)**
- AFAM/LER/PLSC 445Y Politics of Affirmative Action
- SOC 455 Work and Occupations
- SOC/WMNST 456 Gender, Occupations, and Professions
- CED/WMNST 420
- SOC/WMNST 456 Gender, Occupations, and Professions
- LER/WMNST 472 Work-Life Practices and Policies

**Group 3, Section C (History)**
- HIST 423 Orthodox Christianity: History and Interpretations
- HIST 425
- HIST/LER 458Y History of Work in America

**Supporting Courses and Related Areas**
- Select 3 credits in arts/humanities from department list
- Select 3 credits in natural sciences from department list
- Select 3 credits in social and behavioral sciences from department list

**Total Credits**: 24

### M.S. HRER Requirements

37 credits at the 400-level or higher; 18 credits must be at the 500-level, 12 of the 37 credits can be double-counted for B.S. and M.S.; at least 6 of these credits must be at the 500-level

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HRER 501</td>
<td>Labor and Employment Law</td>
<td>3</td>
</tr>
<tr>
<td>HRER 502</td>
<td>Human Behavior at Work</td>
<td>3</td>
</tr>
<tr>
<td>HRER 504</td>
<td>Seminar in Employment Relations</td>
<td>3</td>
</tr>
<tr>
<td>HRER 505</td>
<td>Seminar in Human Resources</td>
<td>3</td>
</tr>
<tr>
<td>HRER 510</td>
<td>Introduction to Graduate Studies in Human Resources and Employment Relations</td>
<td>1</td>
</tr>
<tr>
<td>HRER 512</td>
<td>Research Methods in Human Resources and Employment Relations I</td>
<td>3</td>
</tr>
<tr>
<td>HRER 513</td>
<td>Research Methods in Human Resources and Employment Relations II</td>
<td>3</td>
</tr>
<tr>
<td>HRER 516</td>
<td>Labor Market Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

**Additional Courses**
- HRER 600 Thesis Research (or any 500-level HRER course or 400-level LER course) | 3       |

**Emphasis course**
- Master's research paper or master's thesis | 6       |

**Total Credits**: 37

1. An emphasis is an area of study related to a particular aspect or domain of human resources or employee relations. Select 6 credits of 400-level LER courses or 500-level HRER courses in consultation with an adviser.
2. Students must complete either a Master's Research Paper or a Master's Thesis. Students choosing the Thesis option must complete 6 thesis credits (HRER 600). These credits can be counted towards the 15 credits required from the M.S. Additional Courses section above. The Thesis option is intended for students anticipating additional graduate education beyond the master's degree.

### Program Learning Objectives

**Content Knowledge:**

1. Students will demonstrate knowledge of major psychological concepts, theories, and empirical findings
2. Students will demonstrate the ability to apply psychological concepts and theories to research and real life situations.
3. Students will demonstrate knowledge about the history, values, and scientific foundations of the field of psychology.

**Thinking Skills:**

1. Students will use critical and creative thinking, skeptical inquiry, and the scientific approach to solve problems related to behavior and mental processes.
2. Students will demonstrate critical thinking in the analysis, evaluation, and interpretation of information in the scientific literature to distinguish the scientific literature from other sources.

3. Students will demonstrate the ability to formulate and defend one’s own scholarly opinion based on reading, interpreting, and synthesizing psychological literature.*

**Communication Skills:**

1. Students will communicate effectively (in writing and/or orally) the results of a project or internship.

2. Students will demonstrate the ability to effectively extract central points and summarize psychological research literature and to write in the format of psychological research.

3. Students will demonstrate the ability to translate psychological knowledge into everyday language.*

**Research Skills:**

1. Students will differentiate among the research methods used in psychology and apply the designs in evaluation or development of a research study.

2. Students will demonstrate the ability to analyze and interpret quantitative psychological data using statistics, graphs, and data tables.

**Diversity and Ethical Considerations:**

1. Students will show evidence of knowledge and appreciation for cultural diversity and relativity in human. Students will experience and for the complexity of human behavior and interactions.

2. Students will demonstrate knowledge, and the application of, basic principles of scientific and professional ethics

3. Students will demonstrate sensitivity to ethical concerns and professionalism (including cultural considerations) in settings where applications of psychology and/or psychological research occur.

**Career-related Skills:**

1. Students will demonstrate knowledge of professional options and required training for careers in the major subfields of psychology.

2. Students will demonstrate the ability to identify personally-relevant career options to implement their psychological knowledge, skills, and values in occupational pursuits in a variety of settings.

* Indicates a University Park specific learning objective

**Academic Advising**

The objectives of the university’s academic advising program are to help advisees identify and achieve their academic goals, to promote their intellectual discovery, and to encourage students to take advantage of both in-and out-of class educational opportunities in order that they become self-directed learners and decision makers.

Both advisers and advisees share responsibility for making the advising relationship succeed. By encouraging their advisees to become engaged in their education, to meet their educational goals, and to develop the habit of learning, advisers assume a significant educational role. The advisee’s unit of enrollment will provide each advisee with a primary academic adviser, the information needed to plan the chosen program of study, and referrals to other specialized resources.

READ SENATE POLICY 32-00: ADVISING POLICY (http://senate.psu.edu/policies-and-rules-for-undergraduate-students/32-00-advising-policy)

**University Park**

Liberal Arts Academic Advising
814-865-2545
http://starfish.psu.edu
http://www.la.psu.edu/current-students/undergraduate-students/education/majors-and-minors

**World Campus**

Undergraduate Academic Advising
301 Outreach Building
University Park, PA 16802
814-863-3283
advising@outreach.psu.edu

**Suggested Academic Plan**

The suggested academic plan(s) listed on this page are the plan(s) that are in effect during the 2019-20 academic year. To access previous years’ suggested academic plans, please visit the archive (http://bulletins.psu.edu/undergraduate/archive) to view the appropriate Undergraduate Bulletin edition (Note: the archive only contain suggested academic plans beginning with the 2018-19 edition of the Undergraduate Bulletin).

**University Park Campus**

Any Option

The course series listed below provides only one of the many possible ways to move through this curriculum. The University may make changes in policies, procedures, educational offerings, and requirements at any time. This plan should be used in conjunction with your degree audit (accessible in LionPATH as either an Academic Requirements or What If report). Please consult with a Penn State academic adviser on a regular basis to develop and refine an academic plan that is appropriate for you.

### First Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 15, 30, ESL 15, ENGL 137H, or CAS 137H‡</td>
<td>3</td>
<td>3 CAS 100, ENGL 138T, or CAS 138T*</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 100*‡</td>
<td>3</td>
<td>PSYCH 2xx Level (Group A, B, C or Additional)*</td>
<td>3</td>
</tr>
<tr>
<td>General Education Quantification (GQ)*†‡</td>
<td>3</td>
<td>General Health and Wellness (GHW)</td>
<td>1.5</td>
</tr>
<tr>
<td>First-Year Seminar</td>
<td>3</td>
<td>General Education Social and Behavioral Science Course*</td>
<td>3</td>
</tr>
<tr>
<td>Option Course*</td>
<td>3</td>
<td>STAT 200 or PSYCH 200*†</td>
<td>4</td>
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<td>15</td>
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### Second Year

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<th>Fall</th>
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<th>Spring</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PSYCH 2xx Level (Group A, B, C or Additional)*</td>
<td>3</td>
<td>General Education Course</td>
<td>3</td>
</tr>
<tr>
<td>General Education Course (Integrative Studies)</td>
<td>3</td>
<td>Option Course*</td>
<td>3</td>
</tr>
<tr>
<td>General Education Quantification (GQ)*††</td>
<td>3</td>
<td>PSYCH 2xx Level (Group A, B, C or Additional)*</td>
<td>3</td>
</tr>
<tr>
<td>General Education Course (Integrative Studies)</td>
<td>3</td>
<td>General Education Course (Integrative Studies)</td>
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</table>
### Third Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PSYCH 2xx Level (Group A, B, C or Additional)†</td>
<td>3</td>
<td>PSYCH 4xx level course*</td>
<td>3</td>
</tr>
<tr>
<td>General Education Course</td>
<td>3</td>
<td>PSYCH 301W*</td>
<td>4</td>
</tr>
<tr>
<td>PSYCH 105*</td>
<td>3</td>
<td>Option Course*</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
<td>Option Supporting Course*</td>
<td>3</td>
</tr>
<tr>
<td>Option Course*</td>
<td>3</td>
<td>Elective</td>
<td>3</td>
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<td>15</td>
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<td>16.5</td>
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### Fourth Year

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<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
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</thead>
<tbody>
<tr>
<td>PSYCH 4xx level course*</td>
<td>3</td>
<td>PSYCH 4xx Level Course*</td>
<td>3</td>
</tr>
<tr>
<td>General Education Course</td>
<td>3</td>
<td>PSYCH 490†</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 202A‡</td>
<td>3</td>
<td>Option Course*</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 4xx level course*</td>
<td>3</td>
<td>Option Supporting Course*</td>
<td>3</td>
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<tr>
<td>Elective</td>
<td>3</td>
<td>Elective</td>
<td>3</td>
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</tbody>
</table>

Total Credits 123

- Course requires a grade of C or better for the major
- Course requires a grade of C or better for General Education
- Course is an Entrance to Major requirement
- Course satisfies General Education and degree requirement

### University Requirements and General Education Notes:

US and IL are abbreviations used to designate courses that satisfy University Requirements (United States and International Cultures).

W, M, X, and Y are the suffixes at the end of a course number used to designate courses that satisfy University Writing Across the Curriculum requirement.

GWS, GQ, GHW, GN, GA, GH, and GS are abbreviations used to identify General Education program courses. General Education includes Foundations (GWS and GQ) and Knowledge Domains (GHW, GN, GA, GH, GS, and Integrative Studies). Foundations courses (GWS and GQ) require a grade of ‘C’ or better.

Integrative Studies courses are required for the General Education program. N is the suffix at the end of a course number used to designate an Inter-Domain course and Z is the suffix at the end of a course number used to designate a Linked course.

All incoming Schreyer Honors College first-year students at University Park will take ENGL/CAS 137 in the fall semester and ENGL/CAS 138 in the spring semester. These courses carry the GWS designation and replace both ENGL 30 and CAS 100. Each course is 3 credits.

### Career Paths

Psychology students pursue a wide variety of careers. Many earn graduate degrees that qualify them for careers in clinical psychology, counseling psychology, school psychology, social work, or other helping professions. Others work in health, business, research, school, or government settings. Many businesses seek psychology majors for their knowledge of human behavior, research methods, and data analysis.

More information about potential career options for graduates of the psychology program (http://psych.la.psu.edu/undergraduate/planning/graduate-school-and-career-planning-1)

### Opportunities for Graduate Studies

Some psychology students pursue research-oriented doctoral degrees, entering Ph.D. programs in a variety of areas of psychology. These degrees prepare students for careers in academic, research, business, or government settings. Others pursue the practice-oriented Psy.D. degree. Masters degrees in counseling, school psychology, social work, counselor education, and other fields prepare students for a variety of practice settings. Some psychology students also prepare for medical school or related health-services degrees. Law school or MBA programs are also possibilities.

More information about opportunities for graduate studies (http://psych.la.psu.edu/undergraduate/planning/graduate-school-and-career-planning-1)

### Professional Resources

- American Psychological Association (http://www.apa.org)
- Association for Psychological Science (http://www.psychologicalscience.org)

### University Park

DEPARTMENT OF PSYCHOLOGY
125 Moore Building
University Park, PA 16802
814-863-1811
ugpsychupwc@psu.edu
http://psych.la.psu.edu/

### World Campus

DEPARTMENT OF PSYCHOLOGY
125 Moore Building
University Park, PA 16802
814-863-1811
ugpsychupwc@psu.edu
https://www.worldcampus.psu.edu/degrees-and-certificates/psychology-bachelor-of-science/overview